Ordering Catalogue

## Ordering Catalogue

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Tables

## Primus One

## System table with cable flap and cable through



## Technical features

Rear table legs as system profile column with integrated cable duct
Heavy-load slot nuts on the table legs for attaching accessories
Centrally arranged fold-away cable flap
Large-volume cable through accessible from the front
When the tables are set up side by side the cabling can be passed straight through
Height adjusters for leveling on uneven floors
Individual colour choice possible
System profile can be expanded at the back
Front table legs can be set back to provide more legroom
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

Note
Profile insert panels must be ordered separately. You can find them in Chapter 1.1 Table accessories.

## Primus One

System table with cable flap and cable through

## Technical data

| Table top |  |
| :---: | :---: |
| Thickness | 30 mm |
| Front edge | Edge strip 3 mm thick or Flexi-Line edging, exchangeable (F- edging) |
| Coating | HPL laminate 0.8 mm , non-glare, abrasion-resistant in accordance with EN 438, heat-resistant for short periods, highly flame-retardant |
| Decor | light grey RAL 7035 |
| Cable duct |  |
| Dimension | Height $=150 \mathrm{~mm}$, Depth $=175 \mathrm{~mm}$ |
| Cable flap |  |
| Configuration | Fold-away, with brush strip on the back |
| Dimension | Width $=880 \mathrm{~mm}$, Depth $=124 \mathrm{~mm}$, Height $=30 \mathrm{~mm}$ |
| Load capacity |  |
| Weight loading | 200 kg Surface load capacity |
| ESD variant |  |
| Table top | Same properties as standard model but volume-conductive |
| Configuration | DIN EN 61340-5-1 Part 5-1 |
| Dimension |  |
| Width | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |
| Depth | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |
| Height | 750 mm |

Ordering no.

| Width $\times$ Depth | F- edging | F- edging ESD | Edge strip | Edge strip ESD |
| :--- | :--- | :--- | :--- | :--- |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1E | K0-4E | K0-1E.S | K0-4E.S |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1D | K0-4D | K0-1D.S | K0-4D.S |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1C | K0-4C | K0-1C.S | K0-4C.S |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1B | K0-4B | K0-1B.S | K0-4B.S |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1A | K0-4A | K0-1A.S | K0-4A.S |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2E | K0-5E | K0-2E.S | K0-5E.S |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2D | K0-5D | K0-2D.S | K0-5D.S |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | KO-2C | K0-5C | K0-2C.S | K0-5C.S |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2B | K0-5B | K0-2B.S | K0-5B.S |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2A | K0-5A | K0-2A.S | K0-5A.S |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3E | K0-6E | K0-3E.S | K0-6E.S |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3D | K0-6D | K0-3D.S | K0-6D.S |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3C | K0-6C | K0-3C.S | K0-6C.S |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3B | K0-6B | K0-3B.S | K0-6B.S |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3A | K0-6A | K0-3A.S | K0-6A.S |

## Primus One

System-Table height-adjustable by electric motor



F-edging

Technical features
Centrally arranged fold-away cable flap
Large-volume cable through accessible from the fron
When the tables are set up side by side the cabling can be passed straight through
Exchangeable front edge (in configuration with F-edging)
Height adjusters for leveling on uneven floors
Electrohydraulic height adjustment
Programmable minimum and maximum height
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities
Lift capacity 1600 N per column
Travel speed $15 \mathrm{~mm} / \mathrm{s}$

## Primus One

System-Table height-adjustable by electric motor

## Technical data

| Table top |  |
| :---: | :---: |
| Thickness | 30 mm |
| Front edge | Edge strip 3 mm thick or Flexi-Line edging, exchangeable (F- edging) |
| Coating | HPL laminate 0.8 mm , non-glare, abrasion-resistant in accordance with EN 438, heat-resistant for short periods, highly flame-retardant |
| Decor | light grey RAL 7035 |
| Cable duct |  |
| Dimension | Height $=150 \mathrm{~mm}$, Depth $=175 \mathrm{~mm}$ |
| Cable flap |  |
| Configuration | Fold-away, with brush strip on the back |
| Dimension | Width $=880 \mathrm{~mm}$, Depth $=124 \mathrm{~mm}$, Height $=30 \mathrm{~mm}$ |
| Load capacity |  |
| Weight loading | 200 kg Surface load capacity |
| ESD variant |  |
| Table top | Same properties as standard model but volume-conductive |
| Configuration | DIN EN 61340-5-1 Part 5-1 |
| Dimension |  |
| Width | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |
| Depth | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |
| Height | $E=$ electrically from $750 . . .1200 \mathrm{~mm}$ |

Ordering no.

| Width $\times$ Depth | F- edging | F-edging ESD | Edge strip | Edge strip ESD |
| :--- | :--- | :--- | :--- | :--- |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1E.EC | K0-4E.EC | K0-1E.SEC | K0-4E.SEC |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1D.EC | K0-4D.EC | K0-1D.SEC | K0-4D.SEC |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1C.EC | K0-4C.EC | K0-1C.SEC | K0-4C.SEC |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1B.EC | K0-4B.EC | K0-1B.SEC | K0-4B.SEC |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1A.EC | K0-4A.EC | K0-1A.SEC | K0-4A.SEC |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2E.EC | K0-5E.EC | K0-2E.SEC | K0-5E.SEC |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2D.EC | K0-5D.EC | K0-2D.SEC | K0-5D.SEC |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2C.EC | K0-5C.EC | K0-2C.SEC | K0-5C.SEC |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2B.EC | K0-5B.EC | K0-2B.SEC | K0-5B.SEC |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2A.EC | K0-5A.EC | K0-2A.SEC | K0-5A.SEC |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3E.EC | K0-6E.EC | K0-3E.SEC | K0-6E.SEC |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3D.EC | K0-6D.EC | K0-3D.SEC | K0-6D.SEC |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3C.EC | K0-6C.EC | K0-3C.SEC | K0-6C.SEC |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3B.EC | K0-6B.EC | K0-3B.SEC | K0-6B.SEC |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3A.EC | K0-6A.EC | K0-3A.SEC | K0-6A.SEC |

## Primus One

System-Table with cable duct


Edge strip


F-edging

## Technical features

Rear table legs as system profile column with integrated cable duct
Exchangeable front edge
Heavy-load slot nuts on the table legs for attaching accessories
Large-volume cable through accessible from the front
When the tables are set up side by side the cabling can be passed straight through
Height adjusters for leveling on uneven floors
Individual colour choice possible
System profile can be expanded at the back
Front table legs can be set back to provide more legroom
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

Note:
Profile insert panels must be ordered separately. You can find them in Chapter 1.1 Table accessories.

## Primus One

System-Table with cable duct

Technical data

| Table top |  |  |
| :--- | :--- | :---: |
| Thickness | 30 mm |  |
| Front edge | Edge strip 3 mm thick or <br> Flexi-Line edging, exchangeable (F- edging) |  |
| Coating | HPL laminate 0.8 mm, non-glare, abrasion-resistant in accordance <br> with EN 438, heat-resistant for short periods, highly flame-retardant |  |
| Decor | light grey RAL 7035 |  |
| Cable duct |  |  |
| Dimension |  |  |
| Load capacity $=150 \mathrm{~mm}$, Depth $=175 \mathrm{~mm}$ |  |  |
| Weight loading | 200 kg Surface load capacity |  |
| ESD variant | Same properties as standard model but volume-conductive |  |
| Table top | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration |  |  |
| Dimension | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |
| Width | 800 mm 900 mm 1000 mm |  |
| Depth | 750 mm |  |
| Height |  |  |

Ordering no.

| Width $\times$ Depth | F-edging | F-edging ESD | Edge strip | Edge strip ESD |
| :--- | :--- | :--- | :--- | :--- |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1E.2 | K0-4E.2 | K0-1E.S2 | K0-4E.S2 |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1D.2 | K0-4D.2 | K0-1D.S2 | K0-4D.S2 |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1C.2 | K0-4C.2 | K0-1C.S2 | K0-4C.S2 |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1B.2 | K0-4B.2 | K0-1B.S2 | K0-4B.S2 |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1A.2 | K0-4A.2 | K0-1A.S2 | K0-4A.S2 |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2E.2 | K0-5E.2 | K0-2E.S2 | K0-5E.S2 |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2D.2 | K0-5D.2 | K0-2D.S2 | K0-5D.S2 |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2C.2 | K0-5C.2 | K0-2C.S2 | K0-5C.S2 |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2B.2 | K0-5B.2 | K0-2B.S2 | K0-5B.S2 |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2A.2 | K0-5A.2 | K0-2A.S2 | K0-5A.S2 |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3E.2 | K0-6E.2 | K0-3E.S2 | K0-6E.S2 |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3D.2 | K0-6D.2 | K0-3D.S2 | K0-6D.S2 |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3C.2 | K0-6C.2 | K0-3C.S2 | K0-6C.S2 |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3B.2 | K0-6B.2 | K0-3B.S2 | K0-6B.S2 |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3A.2 | K0-6A.2 | K0-3A.S2 | K0-6A.S2 |

## Primus One

## System table without cable flap and cable duct



Edge strip


F- edging

## Technical features

Rear table legs as system profile column with integrated cable duct
Heavy-load slot nuts on the table legs for attaching accessories
Height adjusters for leveling on uneven floors
Exchangeable front edge
ndividual colour choice possible
System profile can be expanded at the back
Front table legs can be set back to provide more legroom
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

Note:
Profile insert panels must be ordered separately. You can find them in Chapter 1.1 Table accessories. Caution: Additional fill-in plates with a height of 150 mm are needed for the missing cable through

## Primus One

System table without cable flap and cable duct

Technical data

| Table top |  |  |
| :--- | :--- | :---: |
| Thickness | 30 mm |  |
| Front edge | Edge strip 3 mm thick or <br> Flexi-Line edging, exchangeable (F- edging) |  |
| Coating | HPL laminate 0.8 mm, non-glare, abrasion-resistant in accordance <br> with EN 438, heat-resistant for short periods, highly flame-retardant |  |
| Decor | light grey RAL 7035 |  |
| Load capacity |  |  |
| Weight loading |  |  |
| ESD variant | Same properties as standard model but volume-conductive |  |
| Table top | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration |  |  |
| Dimension | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |
| Width | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |  |
| Depth | 750 mm |  |
| Height |  |  |

Ordering no.

| Width $\times$ Depth | F-edging | F-edging ESD | Edge strip | Edge strip ESD |
| :--- | :--- | :--- | :--- | :--- |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1E.1 | K0-4E.1 | K0-1E.S1 | K0-4E.S1 |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1D.1 | K0-4D.1 | K0-1D.S1 | K0-4D.S1 |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1C.1 | K0-4C.1 | K0-1C.S1 | K0-4C.S1 |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1B.1 | K0-4B.1 | K0-1B.S1 | K0-4B.S1 |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1A.1 | K0-4A.1 | K0-1A.S1 | K0-4A.S1 |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2E.1 | K0-5E.1 | K0-2E.S1 | K0-5E.S1 |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2D.1 | K0-5D.1 | K0-2D.S1 | K0-5D.S1 |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2C.1 | K0-5C.1 | K0-2C.S1 | K0-5C.S1 |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2B.1 | K0-5B.1 | K0-2B.S1 | K0-5B.S1 |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2A.1 | K0-5A.1 | K0-2A.S1 | K0-5A.S1 |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3E.1 | K0-6E.1 | K0-3E.S1 | K0-6E.S1 |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3D.1 | K0-6D.1 | K0-3D.S1 | K0-6D.S1 |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3C.1 | K0-6C.1 | K0-3C.S1 | K0-6C.S1 |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3B.1 | K0-6B.1 | K0-3B.S1 | K0-6B.S1 |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3A.1 | K0-6A.1 | K0-3A.S1 | K0-6A.S1 |

## Primus One

System table with cable flap and cable duct, mobile


Edge strip


F-edging

## Technical features

Rear table legs as system profile column with integrated cable duct
4 double swivel castors 100 mm dia., 2 of them lockable
Load-bearing capacity 100 kg per castor
Exchangeable front edge
Heavy-load slot nuts on the table legs for attaching accessories
Centrally arranged fold-away cable flap
Large-volume cable through accessible from the front
Individual colour choice possible
System profile can be expanded at the back
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

Note:
Profile insert panels must be ordered separately. You can find them in Chapter 1.1 Table accessories.
Caution: Fill-in plates with height of 413 mm are needed
Traverse for reinforcement available on request

## Primus One

System table with cable flap and cable duct, mobile

Technical data

| Table top |  |
| :---: | :---: |
| Thickness | 30 mm |
| Front edge | Edge strip 3 mm thick or Flexi-Line edging, exchangeable (F- edging) |
| Coating | HPL laminate 0.8 mm , non-glare, abrasion-resistant in accordance with EN 438, heat-resistant for short periods, highly flame-retardant |
| Decor | light grey RAL 7035 |
| Cable duct |  |
| Dimension | Height $=150 \mathrm{~mm}$, Depth $=175 \mathrm{~mm}$ |
| Cable flap |  |
| Configuration | Fold-away, with brush strip on the back |
| Dimension | Width $=880 \mathrm{~mm}$, Depth $=124 \mathrm{~mm}$, Height $=30 \mathrm{~mm}$ |
| Load capacity |  |
| Weight loading | 200 kg Surface load capacity |
| ESD variant |  |
| Table top | Same properties as standard model but volume-conductive |
| Configuration | DIN EN 61340-5-1 Part 5-1 |
| Dimension |  |
| Width | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |
| Depth | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |
| Height | 750 mm |
| Castor diameter | 100 mm |

Ordering no.

| Width $\times$ Depth | F-edging | F-edging ESD | Edge strip | Edge strip ESD |
| :--- | :--- | :--- | :--- | :--- |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1E.R | K0-4E.R | K0-1E.RS | K0-4E.RS |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1D.R | K0-4D.R | K0-1D.RS | K0-4D.RS |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | KO-1C.R | K0-4C.R | K0-1C.RS | K0-4C.RS |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1B.R | K0-4B.R | K0-1B.RS | K0-4B.RS |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K0-1A.R | K0-4A.R | K0-1A.RS | K0-4A.RS |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2E.R | K0-5E.R | K0-2E.RS | K0-5E.RS |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2D.R | K0-5D.R | K0-2D.RS | K0-5D.RS |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2C.R | K0-5C.R | K0-2C.RS | K0-5C.RS |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | KO-2B.R | K0-5B.R | K0-2B.RS | K0-5B.RS |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | K0-2A.R | K0-5A.R | K0-2A.RS | K0-5A.RS |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3E.R | K0-6E.R | K0-3E.RS | K0-6E.RS |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3D.R | K0-6D.R | K0-3D.RS | K0-6D.RS |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3C.R | K0-6C.R | K0-3C.RS | K0-6C.RS |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3B.R | K0-6B.R | K0-3B.RS | K0-6B.RS |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K0-3A.R | K0-6A.R | K0-3A.RS | K0-6A.RS |

## A Primus One

## ELABO

euromicron Gruppe

Table accessories

## Primus One

Table accessories


## Technical features

## intelligent additions to your table

System profile insert panel for providing power in the rear table legs
Electric socket installation kits for the cable through
Spare parts and upgrades guarantee long-term unrestricted use of the tables
Accessories adapt the table to new requirements
Comprehensive detailed solutions

| Standard colours: |  |
| :--- | :--- |
| Traffic red | RAL3020 |
| signal blue | RAL5005 |
| black grey | RAL7021 |

Individual colour available on request.

## Primus One

System profile insert panel for rear table legs

Technical data


## Primus One

## System profile insert panel for rear table legs

## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| PC connecting panel <br> 1/N/PE ~ 50 Hz 230 V 16 A <br> at Schuko socket (type F) with network connection and cable outlet $\varnothing 60 \mathrm{~mm}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> 1 Schuko socket (type F) <br> 1 RJ-45 Cat6 receptacle/receptacle <br> 1 cable outlet black $\varnothing 60 \mathrm{~mm}$ <br> Country-specific variants possible for safety sockets. |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2H00DE.523.3020 <br> K5-2H00DE.523.5005 <br> K5-2H00DE.523.7021 |
| Power supply panel 1/N/PE ~50 Hz 230 V 16 A at Schuko socket (type F) with network connection and cable outlet $\varnothing 60 \mathrm{~mm}$ and cut-out for surface-mounted socket box. $W=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> 1 Schuko socket (type F) <br> 1 cable outlet black $\varnothing 60 \mathrm{~mm}$ <br> 1 cut-out for cavity-wall socket box <br> Country-specific variants possible for safety sockets. |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2H01DE.523.3020 <br> K5-2H01DE.523.5005 <br> K5-2H01DE.523.7021 |
| Power supply panel <br> 1/N/PE ~50 Hz 230 V 16 A <br> at Schuko socket (type F) with network connection and cable outlet $\varnothing 60 \mathrm{~mm}$ and cut-out for surface-mounted socket box. $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> 1 Schuko socket (type F) <br> 1 cable outlet black $\varnothing 60 \mathrm{~mm}$ <br> 2 cut-outs for cavity-wall socket box <br> Country-specific variants possible for safety sockets. |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2H02DE.523.3020 <br> K5-2H02DE.523.5005 <br> K5-2H02DE.523.7021 |

## Primus One

System profile insert panel for rear table legs

Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Power supply panel <br> $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ <br> at Schuko socket (type F) with cable outlet <br> $\varnothing 60 \mathrm{~mm}$ $W=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> 1 Schuko socket (type F) <br> 2 cable outlets black $\varnothing 60 \mathrm{~mm}$ <br> Country-specific variants possible for safety sockets. |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2A00DE.523.3020 <br> K5-2A00DE.523.5005 <br> K5-2A00DE.523.7021 |
| Power supply panel <br> $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ <br> at Schuko socket (type F) with cable outlet $\varnothing 60 \mathrm{~mm}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> 1 Schuko socket (type F) <br> 2 cable outlets black $\varnothing 60 \mathrm{~mm}$ |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2A01DE.523.3020 <br> K5-2A01DE.523.5005 <br> K5-2A01DE.523.7021 |
| Power supply panel <br> $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230$ V 16 A <br> at Schuko sockets (type F) $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> 1 illuminated rocker switch <br> 5 Schuko socket (type F) <br> Country-specific variants possible for safety sockets. | 뚀 | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2A02DE.523.3020 <br> K5-2A02DE.523.5005 <br> K5-2A02DE.523.7021 |

## Primus One

System profile insert panel for rear table legs

## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Power supply panel <br> 1/N/PE ~ 50 Hz 230 V 16 A <br> at Schuko socket (type F) with cable outlet $\varnothing$ 60 mm $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> 1 cable outlet black $\varnothing 60 \mathrm{~mm}$ <br> 1 illuminated rocker switch <br> 4 Schuko socket (type F) <br> Country-specific variants possible for safety sockets. | 뚀 | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2D01DE.523.3020 <br> K5-2D01DE.523.5005 <br> K5-2D01DE.523.7021 |
| Power supply panel <br> $3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 400 \mathrm{~V} 16 \mathrm{~A}$ <br> at CEE socket outlet and Schuko socket (type F), as well as cable outlet $\varnothing 60 \mathrm{~mm}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> 1 cable outlet black $\varnothing 60 \mathrm{~mm}$ <br> 1 CEE socket outlet <br> 2 Schuko socket (type F) |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-3A01DE.523.3020 <br> K5-3A01DE.523.5005 <br> K5-3A01DE.523.7021 |
| Power supply panel <br> $3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 400 \mathrm{~V} 16 \mathrm{~A}$ <br> at CEE socket outlet and cable outlet $\varnothing 60 \mathrm{~mm}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> 1 cable outlet black $\varnothing 60 \mathrm{~mm}$ <br> 1 CEE socket outlet |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-3A02DE.523.3020 <br> K5-3A02DE.523.5005 <br> K5-3A02DE.523.7021 |

Table accessories

Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Snap-on nuts for attaching accessories <br> Set consists of 4 nuts with accessories |  | for M5 <br> for M6 <br> for M8 | $\begin{aligned} & 78-2 \mathrm{HZM} 5 \\ & 78-2 \mathrm{H} \\ & 78-2 \mathrm{~J} \end{aligned}$ |
| Table foot bracket <br> Supplied in pairs including mounting material |  |  | K9-0G <br> (A) |
| Connecting bracket <br> Supplied in pairs including mounting material |  |  | $\mathrm{K} 9-\mathrm{OH}$ <br> (A) |
| Filler piece for mounting on the system profile, at the rear, made from sheet steel, powder-coated, including mounting material Content of package $=1$ piece |  |  | K9-0D |
| 4 double swivel casters two of which are lockable retrofittable <br> Load-bearing capacity 100 kg per castor diameter 100 mm Construction height 120 mm |  |  | 78-1R <br> 78-1S |
| Elabo cable manager for tidy routing of cables. <br> Content of package: 2 pieces <br> The cables are simply pressed between the individually arranged rods and can be laid straight or curved. <br> The selfadhesive rear side allows the cable manager to be attached to any flat surface. <br> Dimensions: $100 \times 100 \times 20 \mathrm{~mm}$ |  |  | 83-6X |

## Corner table top

## System-Corner table top



Technical features
Corner sections suitable for corner combinations with system tables without the need for legs Asymmetrical variants are available for connecting system tables of different depths $90^{\circ}$ corner sections are generally fitted with an extra supporting leg to increase stability Wire mesh cable tray permits simple cable routing
Optionally available with cover panels to optically match the sections to the system tables ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

## Note:

Including wire mesh tray for routing cables
ncluding supporting foot
Including cable outlet $\varnothing 80 \mathrm{~mm}$ light grey

## System-Corner table top

## Technical data

| Table top |  |  |
| :--- | :--- | :---: |
| Thickness | 30 mm |  |
| Front edge | Edge strip 3 mm thick or <br> Flexi-Line edging, exchangeable (F- edging) |  |
| Coating | HPL laminate 0.8 mm, non-glare, abrasion-resistant in accordance <br> with EN 438, heat-resistant for short periods |  |
| Decor | light grey RAL 7035 |  |
| Support leg for $90^{\circ}$ edges |  |  |
| Dimension |  |  |
| Wire mesh cable tray | Height $=750 \mathrm{~mm}$ |  |
| Dimension |  |  |
| Load capacity | Width $=100 \mathrm{~mm}$, Height $=35 \mathrm{~mm}$ |  |
| Weight loading | 80 kg Surface load capacity |  |
| ESD variant |  |  |
| Table top | Same properties as standard model but volume-conductive |  |
| Configuration | DIN EN $61340-5-1$ Part 5-1 |  |
| Dimension | $55 / 600 \mathrm{~mm}$ |  |
| Seat side | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |  |
| Depth | $30^{\circ}, 45^{\circ}, 90^{\circ}$ |  |
| Angle bracket | 750 mm |  |
| Height | 80 mm |  |
| Cable outlet |  |  |


| Description |  | Width $\times$ Depth | Standard | ESD |
| :---: | :---: | :---: | :---: | :---: |
| Corner table top $90^{\circ}$ including supporting foot <br> Seat side 55 mm <br> Note: <br> Outer side length +40 mm at each side |  | ```F- edging \(800 \mathrm{~mm} \times 800 \mathrm{~mm}\) \(900 \mathrm{~mm} \times 900 \mathrm{~mm}\) \(1000 \mathrm{~mm} \times 1000 \mathrm{~mm}\) Edge strip \(800 \mathrm{~mm} \times 800 \mathrm{~mm}\) \(900 \mathrm{~mm} \times 900 \mathrm{~mm}\) \(1000 \mathrm{~mm} \times 1000 \mathrm{~mm}\)``` | K1-1A <br> K1-1B <br> K1-1C <br> K1-1A.S <br> K1-1B.S <br> K1-1C.S | K1-3A <br> K1-3B <br> K1-3C <br> K1-3A.S <br> K1-3B.S <br> K1-3C.S |
| CAD-corner table top $90^{\circ}$ including supporting foot <br> Seat side 600 mm <br> Note: <br> Outer side length +40 mm at each side |  | $\begin{aligned} & \text { F- edging } \\ & 800 \mathrm{~mm} \times 800 \mathrm{~mm} \\ & 900 \mathrm{~mm} \times 900 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 1000 \mathrm{~mm} \\ & \text { Edge strip } \\ & 800 \mathrm{~mm} \times 800 \mathrm{~mm} \\ & 900 \mathrm{~mm} \times 900 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 1000 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & \text { K1-2A } \\ & \text { K1-2B } \\ & \text { K1-2C } \end{aligned}$ <br> K1-2A.S K1-2B.S K1-2C.S | K1-4A <br> K1-4B <br> K1-4C <br> K1-4A.S <br> K1-4B.S <br> K1-4C.S |

## System-Corner table top

## Technical data

| Description |  | Width $\times$ Depth | Standard | ESD |
| :---: | :---: | :---: | :---: | :---: |
| Corner table top $90^{\circ}$ including supporting foot <br> Seat side 55 mm <br> Note: <br> Outer side length +40 mm at each side | 0 | F- edging $800 \mathrm{~mm} \times 900 \mathrm{~mm}$ $800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ $900 \mathrm{~mm} \times 1000 \mathrm{~mm}$ <br> Edge strip $800 \mathrm{~mm} \times 900 \mathrm{~mm}$ $800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ $900 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K1-1D K1-1E K1-1F <br> K1-1D.S K1-1E.S K1-1F.S | K1-3D <br> K1-3E <br> K1-3F <br> K1-3D.S <br> K1-3E.S <br> K1-3F.S |
| Corner table top $90^{\circ}$ including supporting foot <br> Seat side 55 mm <br> Note: <br> Outer side length +40 mm at each side |  | $\begin{aligned} & \text { F- edging } \\ & 900 \mathrm{~mm} \times 800 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 900 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 800 \mathrm{~mm} \\ & \text { Edge strip } \\ & 900 \mathrm{~mm} \times 800 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 900 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 800 \mathrm{~mm} \end{aligned}$ | K1-1G <br> K1-1H <br> K1-1J <br> K1-1G.S <br> K1-1H.S <br> K1-1J.S | K1-3G <br> K1-3H <br> K1-3J <br> K1-3G.S <br> K1-3H.S <br> K1-3J.S |
| CAD- Corner table top $90^{\circ}$ including supporting foot <br> Seat side 600 mm <br> Note: <br> Outer side length + <br> 425 mm at each side |  | F-edging $800 \mathrm{~mm} \times 900 \mathrm{~mm}$ $800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ $900 \mathrm{~mm} \times 1000 \mathrm{~mm}$ <br> Edge strip $800 \mathrm{~mm} \times 900 \mathrm{~mm}$ $800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ $900 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | K1-2D <br> K1-2E <br> K1-2F <br> K1-2D.S <br> K1-2E.S <br> K1-2F.S | K1-4D <br> K1-4E <br> K1-4F <br> K1-4D.S <br> K1-4E.S <br> K1-4F.S |
| CAD-corner table top $90^{\circ}$ including supporting foot <br> Seat side 600 mm <br> Note: <br> Outer side length + <br> 425 mm at each side |  | F- edging $900 \mathrm{~mm} \times 800 \mathrm{~mm}$ $1000 \mathrm{~mm} \times 900 \mathrm{~mm}$ $1000 \mathrm{~mm} \times 800 \mathrm{~mm}$ <br> Edge strip $900 \mathrm{~mm} \times 800 \mathrm{~mm}$ $1000 \mathrm{~mm} \times 900 \mathrm{~mm}$ $1000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | K1-2G <br> K1-2H <br> K1-2J <br> K1-2G.S <br> K1-2H.S <br> K1-2J.S | K1-4G <br> K1-4H <br> K1-4J <br> K1-4G.S <br> K1-4H.S <br> K1-4J.S |

## System-Corner table top

## Technical data

| Description |  | Width $\times$ Depth | Standard | ESD |
| :---: | :---: | :---: | :---: | :---: |
| Corner table top $45^{\circ}$ <br> Seat side 55 mm |  | $\begin{aligned} & \text { F- edging } \\ & 800 \mathrm{~mm} \times 800 \mathrm{~mm} \\ & 900 \mathrm{~mm} \times 900 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 1000 \mathrm{~mm} \\ & \text { Edge strip } \\ & 800 \mathrm{~mm} \times 800 \mathrm{~mm} \\ & 900 \mathrm{~mm} \times 900 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 1000 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & \text { K1-1A. } 45^{\circ} \\ & \text { K1-1B. } 45^{\circ} \\ & \text { K1-1C. } 45^{\circ} \end{aligned}$ <br> K1-1A.S45 <br> K1-1B. S45 ${ }^{\circ}$ <br> K1-1C. $545^{\circ}$ | K1-3A. $45^{\circ}$ <br> K1-3B.45 <br> K1-3C. $45^{\circ}$ <br> K1-3A.S45 ${ }^{\circ}$ <br> K1-3B.S45 <br> K1-3C.S45 |
| Corner table top $30^{\circ}$ <br> Seat side 55 mm |  | $\begin{aligned} & \text { F- edging } \\ & 800 \mathrm{~mm} \times 800 \mathrm{~mm} \\ & 900 \mathrm{~mm} \times 900 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 1000 \mathrm{~mm} \\ & \text { Edge strip } \\ & 800 \mathrm{~mm} \times 800 \mathrm{~mm} \\ & 900 \mathrm{~mm} \times 900 \mathrm{~mm} \\ & 1000 \mathrm{~mm} \times 1000 \mathrm{~mm} \end{aligned}$ | K1-1A. $30^{\circ}$ <br> K1-1B. $30^{\circ}$ <br> K1-1C. $30^{\circ}$ <br> K1-1A.S30 <br> K1-1B. S30 <br> K1-1C. $530^{\circ}$ | $\begin{aligned} & \text { K1-3A. } 30^{\circ} \\ & \text { K1-3B. } 30^{\circ} \\ & \text { K1-3C. } 30^{\circ} \end{aligned}$ <br> K1-3A.S30 <br> K1-3B.S30 <br> K1-3C.S30 |

## A Primus One

## ELABO

euromicron Gruppe

Instrument shelves

## Primus One

## System-function shelf



## Technical features

Function shelf can be steplessly tilted by $30^{\circ}$
Slide-prevention edging at the front and the back
Stepless height adjustment
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities Two heavy-duty grooves are provided, one at the top and one at the bottom


## Primus One

System-function shelf

Technical data

| Shelf panel |  |  |
| :--- | :--- | :---: |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, gasoline <br> and oil |  |
| Decor | light grey RAL 7035 |  |
| Load capacity | 80 kg Surface load capacity up to 1600 mm width <br> 60 kg Surface load capacity up to 2000 mm width |  |
| Weight loading |  |  |
| ESD variant | Same properties as standard model but volume-conductive |  |
| Table top | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration |  |  |
| Dimension | $975 \mathrm{~mm}, 1275 \mathrm{~mm}, 1375 \mathrm{~mm}, 1575 \mathrm{~mm}, 1775 \mathrm{~mm}$ |  |
| Width function shelf | 400 mm |  |
| Depth | 88 mm |  |
| Height |  |  |

Ordering no.

| Width $/$ for table width | Standard | ESD |
| :--- | :--- | :--- |
| $975 \mathrm{~mm} / 1200 \mathrm{~mm}$ | K4-3E | K4-3L |
| $1275 \mathrm{~mm} / 1500 \mathrm{~mm}$ | K4-3D | K4-3K |
| $1375 \mathrm{~mm} / 1600 \mathrm{~mm}$ | K4-3C | K4-3J |
| $1575 \mathrm{~mm} / 1800 \mathrm{~mm}$ | K4-3B | K4-3H |
| $1775 \mathrm{~mm} / 2000 \mathrm{~mm}$ | K4-3A | K4-3G |

Suitable system profile (1Pair)

| Length: 510 mm <br> For equipping with 480 mm insert panel | K5-1P. 0510 |
| :--- | :--- |

Suitable accessories

| Function tray | for table width | Height | Depth | Ordering no. |
| :---: | :---: | :---: | :---: | :---: |
|  | 1200 mm | 83 mm | 90 mm | K9-4K B0940 |
|  | 1500 mm | 83 mm | 90 mm | K9-4K B1240 |
|  | 1600 mm | 83 mm | 90 mm | K9-4K B1340 |
|  | 1800 mm | 83 mm | 90 mm | K9-4K B1540 |
|  | 2000 mm | 83 mm | 90 mm | K9-4K B1740 |

## Primus One

## System-Instrument shelf



## Technical features

System shelf element made of 30 mm HPL coated board, front edging rounded
LED lighting can be integrated
Orga panel can be integrated
Shelf element prepared on each side for downward routing of cable
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

## Note

ncluding system carrier
Orga panel available separately
Corner instrument shelves available on request

## Primus One

System-Instrument shelf

Technical data

| Shelf panel |  |  |
| :--- | :--- | :---: |
| Thickness | 30 mm |  |
| Coating | HPL laminate 0.8 mm, non-glare, abrasion-resistant in accordance <br> with EN 438, heat-resistant for short periods |  |
| Decor | light grey RAL 7035 |  |
| Load capacity | 80 kg Surface load capacity up to 1600 mm width <br> 60 kg Surface load capacity up to 2000 mm width |  |
| Weight loading |  |  |
| ESD variant | Same properties as standard model but volume-conductive |  |
| Table top | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration |  |  |
| Dimension | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |
| Width instrument shelf | 400 mm |  |
| Depth | $30 \mathrm{~mm} \mathrm{(+60} \mathrm{~mm} \mathrm{System} \mathrm{carrier)}$ |  |
| Height |  |  |

Ordering no.

| Width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| 1200 mm | K4-7E | K4-7L |
| 1500 mm | K4-7D | K4-7K |
| 1600 mm | K4-7C | K4-7J |
| 1800 mm | K4-7B | K4-7H |
| 2000 mm | K4-7A | K4-7G |

Suitable system profile (1 pair)

| Length: 570 mm <br> For equipping with 480 mm insert panel | K5-1P.0570 |
| :--- | :--- |

## Primus One

System-Instrument shelf partially equipped


## Technical features

Storage area for customer's own measuring devices and power supplies Possibility of equipping with Elabo components
LED lighting can be integrated
Orga panel can be integrated for shelf element
Shelf element prepared on each side for downward routing of cable
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

## 3HU NET

## Note:

ncluding system carrier
Orga panel available separately

## Primus One

System-Instrument shelf partially equipped

Technical data


Ordering no. superstructure left side

| Width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| 1200 mm | K4-7E.3HU | K4-7L.3HU |
| 1500 mm | K4-7D.3HU | K4-7K.3HU |
| 1600 mm | K4-7C.3HU | K4-7J.3HU |
| 1800 mm | K4-7B.3HU | K4-7H.3HU |
| 2000 mm | K4-7A.3HU | K4-7G.3HU |

Ordering no. superstructure right side

| Width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| 1200 mm | K4-7E.3HU-RE | K4-7L.3HU-RE |
| 1500 mm | K4-7D.3HU-RE | K4-7K.3HU-RE |
| 1600 mm | K4-7C.3HU-RE | K4-7J.3HU-RE |
| 1800 mm | K4-7B.3HU-RE | K4-7H.3HU-RE |
| 2000 mm | K4-7A.3HU-RE | K4-7G.3HU-RE |

Suitable system profile (1 pair)

| Length: $570 / 720 \mathrm{~mm}$ |
| :--- | :--- |
| For equipping with 480 mm insert panel |
| Including system carrier |

## A Primus One

## ELABO

euromicron Gruppe

Superstructures

## Primus One

## System-Superstructure 3HU



## Technical features

. Ergonomically inclined towards the user (front inclination)
Completely electrically pre-wired with device connections
Can be fitted with Elabo devices or third-party devices
Removable metal rear wall
Retrofittable LED lighting
Retrofittable Orga panel
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

## 3HU NET

[^0]
## Primus One

System-Superstructure 3HU

Technical data

| Body |  |  |
| :--- | :--- | :--- |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Decor | light grey RAL 7035 |  |
| ESD variant | DIN EN 61340-5-1 Part 5-1 <br> Body volume-conductive |  |
| Configuration | Width | Equipment |
| Dimension | 1200 mm | 216 HP |
| Width | 1500 mm | 270 HP |
|  | 1600 mm | 294 HP |
|  | 1800 mm | 330 HP |
|  | 2000 mm | 372 HP |
| Depth |  | Top: 386 mm <br> Bottom: 350 mm |
| Height | $3 H \mathrm{HU}$ | 210 mm <br> (270 mm with system carrier) |

Ordering no.

| Width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| 1200 mm | K4-2E | K4-2L |
| 1500 mm | K4-2D | K4-2K |
| 1600 mm | K4-2C | K4-2J |
| 1800 mm | K4-2B | K4-2H |
| 2000 mm | K4-2A | K4-2G |

## Suitable system profile (1 pair)

| Length: 748 mm <br> For equipping with 480 mm insert panel | K5-1P.0748 |
| :--- | :--- |

## Primus One

## System-Superstructure 6HU



## Technical features

Ergonomically inclined towards the user (front inclination) Completely electrically pre-wired with device connections Can be fitted with Elabo devices or third-party devices
Seamless integration of $19^{\prime \prime}$ devices
Removable metal rear wall
Retrofittable LED lighting
Retrofittable Orga panel
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

## 3HU NET

Note:
hcluding system carrier
Orga panel available separately

## Primus One

System-Superstructure 6HU

## Technical data

| Body |  |  |
| :---: | :---: | :---: |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, gasoline and oil |  |
| Decor | light grey RAL 7035 |  |
| ESD variant |  |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 Body volume-conductive |  |
| Dimension | Width | Equipment |
| Width | 1200 mm | 216TE |
|  | 1500 mm | 270TE |
|  | 1600 mm | 294TE |
|  | 1800 mm | 330TE |
|  | 2000 mm | 372TE |
| Depth |  | Top: 412 mm Bottom: 350 mm |
| Height | 6 HU | 360 mm <br> (420 mm with system carrier) |

Ordering no.

| Width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| 1200 mm | K4-4E | K4-4L |
| 1500 mm | K4-4D | K4-4K |
| 1600 mm | K4-4C | K4-4J |
| 1800 mm | K4-4B | K4-4H |
| 2000 mm | K4-4A | K4-4G |

Suitable system profile (1 pair)

| Length: 900 mm |  |
| :--- | :--- |
| For equipping with 480 mm insert panel | K5-1P.0900 |

Suitable accessories

| ELABO Primus One 19" adaption to integrate 19 " insert panels <br> and electrical inserts <br> Consisting of: $2 \times 6 \mathrm{HU}$ angles, $2 \times$ guide rails, $2 \times$ insert panel, fixing material | $\mathrm{K} 9-4 \mathrm{~A}$ |
| :--- | :--- |

## Primus One

## System-Shelf superstructure



Technical features
Storage space directly at the workplace
Suitable for DIN A4 file
Shelf version including one height-adjustable shelf
Retrofittable LED lighting
Retrofittable Orga panel
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities
Superstructure can be equipped with electric sockets, for example

## Note:

Pay attention whether the design is with or without a system carrier
Orga panel separately available only for superstructure with system carrier
Shelf superstructure can be fitted with 330 mm insert plates

## Primus One

System-Shelf superstructure

## Technical data

| Body |  |  |
| :--- | :--- | :---: |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Decor | light grey RAL 7035 |  |
| ESD variant |  |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 <br> Body volume-conductive |  |
| Dimension | Width |  |
| Width | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |
| Depth | Outside |  |
|  | Inside |  |
| Height | Outside |  |
|  | Inside |  |

Ordering no.

| Width | Standard | ESD | Without <br> system carrier | Without <br> system carrier ESD |
| :--- | :--- | :--- | :--- | :--- |
| 1200 mm | K4-5E | K4-5L | K4-5E.1 | K4-5L.1 |
| 1500 mm | K4-5D | K4-5K | K4-5D.1 | K4-5K.1 |
| 1600 mm | K4-5C | K4-5J | K4-5C.1 | K4-5J.1 |
| 1800 mm | K4-5B | K4-5H | K4-5B.1 | K4-5H.1 |
| 2000 mm | K4-5A | K4-5G | K4-5A.1 | K4-5G.1 |

Suitable system profile (1 pair)

| Length: 372 mm <br> For installing shelf unit directly on top of an electrical superstructure <br> For equipping with 330 mm insert panel | K5-1P.0372 |
| :--- | :--- |
| Length: 910 mm <br> For installation of a shelf unit over a table <br> For equipping with $480 \mathrm{~mm}+330 \mathrm{~mm}$ insert panel | K5-1P.0910 |

## Primus One

System-Roller-shutter superstructure


Technical features
Storage space directly at the workplace
Suitable for DIN A4 file
Roller shutter superstructure with lock and foldable key, optionally centrally lockable
Retrofittable LED lighting
Retrofittable Orga panel

Note:
Pay attention whether the design is with or without a system carrier
Orga panel separately available only for superstructure with system carrier

## Primus One

System-Roller-shutter superstructure

## Technical data

| Body |  |
| :--- | :--- |
| Thickness | 19 mm |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |
| Decor | light grey RAL 7035 |
| Dimension | Width |
| Width | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |
| Depth | Outside |
|  | Inside |
| Height | Outside |
|  | Inside |

Ordering no.

| Width | Standard | Without system carrier |
| :--- | :--- | :--- |
| 1200 mm | K4-6E | K4-6E.1 |
| 1500 mm | K4-6D | K4-6D.1 |
| 1600 mm | K4-6C | K4-6C.1 |
| 1800 mm | K4-6B | K4-6B.1 |
| 2000 mm | K4-6A | K4-6A.1 |

Suitable system profile (1 pair)

| Length: 372 mm |  |
| :--- | :--- |
| For installing shelf unit directly on top of an electrical superstructure | K5-1P.0372 |
| Length: 910 mm <br> For installation of a shelf unit over a table <br> For equipping with 480 mm insert panel | K5-1P.0910 |

## Primus One

System-Sliding-door superstructure


## Technical features

Storage space directly at the workplace
Suitable for DIN A4 file
Sliding door with lock and foldable key, optionally centrally lockable
Retrofittable LED lighting
With partition panel and height-adjustable shelf
Note:
Pay attention whether the design is with or without a system carrier
Orga panel separately available only for superstructure with system carrie
Sliding-doors superstructure with 330 mm insert panels

## Primus One

System-Sliding-door superstructure

Technical data

| Body |  |  |
| :--- | :--- | :---: |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Decor | light grey RAL 7035 |  |
| ESD variant |  |  |
| Configuration | DIN EN 61340-5-1 Part $5-1$ <br> Body volume-conductive |  |
| Dimension | Width |  |
| Width | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |
| Depth | Outside |  |
|  | Inside |  |
| Height | Outside |  |
|  | Inside |  |
|  |  |  |

Ordering no.
$\left.\begin{array}{|l|l|l|l|l|}\hline \text { Width } & \text { Standard } & \text { ESD }\end{array} \begin{array}{l}\text { Without } \\ \text { System carrier }\end{array} \quad \begin{array}{l}\text { Without } \\ \text { System carrier ESD }\end{array}\right]$

Suitable system profile (1 pair)

| Length: 372 mm <br> For installing shelf unit directly on top of an electrical superstructure <br> For equipping with 330 mm insert panel | K5-1P.0372 |
| :--- | :--- |
| Length: 910 mm <br> For instalation of a shelf unit over a table <br> For equipping with $480 \mathrm{~mm}+330 \mathrm{~mm}$ insert panel | K5-1P.0910 |

## A Primus One

## ELABO

euromicron Gruppe
System profiles


## Insert panel

## Technical features

Aluminum profiles (extruded sections) for maximum strength
Heavy-load slot nuts for mounting accessories such as PC holders
High-grade anodized surface
Columns designed as vertical ducts
Cable chambers inside for tidy routing of cables
Suitable for installation of profi led work surfaces
Vertically extendable by means of an invisible patented fastening technology
(on the rear table legs)
Technical data

| Description | Length | Ordering no. |
| :--- | :--- | :--- |
| Extension above function shelf | 240 mm | K5-1P.0240 |
| Extension above superstructure or table | 270 mm | K5-1P.0270 |
| For installing shelf-unit directly on an electrical <br> superstructure | 372 mm | K5-1P.0372 |
| Extension above function shelf | 480 mm | K5-1P.0480 |
| For "open-end" configurations / function shelves | 510 mm | K5-1P.0510 |
| For instrument shelf | 570 mm | K5-1P.0570 |
| For 3HU superstructures | 748 mm | K5-1P.0748 |
| For 6HU superstructures | 900 mm | K5-1P.0900 |
| For installing roller-shutter / shelf unit superstructures <br> directly on the table | 910 mm | K5-1P.0910 |
| System profile for $2 \times 480$ mm equipping | 990 mm | K5-1P.0990 |

## Primus One

## System-Insert panel



## Technical features

Individual configuration of the workplace
All profile panels available in three standard colours
Different colours available on request
Choose from a wide range of equipment variants

## Standard colours: <br> Traffic red RAL3020 <br> Black grey RAL7021 <br> Signal blue RAL5005

Individual colour available on request.

## Note:

Fuse protection units are listed at the end of this chapter

Primus One
System-Insert panel

## Technical data

| Description |  |  | Ordering no. |
| :--- | :--- | :--- | :--- |
| Single-phase power switch |  | Insert panel traffic red | K5-1A02DE.240.3020 |
| Mains voltage $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ |  |  |  |
| $\mathrm{~W}=80 \mathrm{~mm}, \mathrm{H}=240 \mathrm{~mm}$ |  |  |  |
| Equipment: |  |  |  |
| 1 Off button |  |  |  |
| 1 keyed On button |  |  |  |
| 1 phase control lamp |  |  |  | K5-1A02DE.240.5005

## Primus One

## System-Insert panel

## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Single-phase power switch with voltage supply and protection <br> Mains voltage $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment : <br> 1 Off button <br> 1 keyed On button <br> 1 phase control lamp <br> 1 circuit breaker 16 A type B <br> 130 mA type A <br> 1 Schuko socket (type F) |  | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-1C01DE. 480.3020 <br> K5-1C01DE. 480.5005 <br> K5-1C01DE.480.7021 |
| Three-phase power switch with voltage supply <br> Mains voltage 3 / N / PE ~50 Hz 400 V 16 A $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 1 Off button <br> 1 keyed On button <br> 3 phase control lamps <br> 1 CEE socket <br> 5 safety lab terminals <br> 1 Schuko socket (type F) |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-1B01DE. 480.3020 <br> K5-1B01DE. 480.5005 <br> K5-1B01DE.480.7021 |
| Single phase power switch with voltage supply <br> Mains voltage $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 1 Off button <br> 1 Keyed On button <br> 1 Phase control lamps <br> 3 Schuko sockets (type F) <br> 3 Safety lab terminals |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-1A11DE. 480.3020 <br> K5-1A11DE.480.5005 <br> K5-1A11DE. 480.7021 |

## Primus One

## System-Insert panel

## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Three-phase power switch with voltage supply <br> Mains voltage 3 / N / PE ~50 Hz 400 V 16 A $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> With black Key Push Off-button designed as an Quick/Off switch <br> Equipment: <br> 1 Keyed Push Off-button <br> 3 Phase control lamps <br> 1 CEE socket <br> 1 Schuko socket (type F) <br> 5 Safety lab terminals |  | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-1B06DE.480.3020 <br> K5-1B06DE.480.5005 <br> K5-1B06DE.480.7021 |
| Three-phase power switch with voltage supply <br> Mains voltage 3 / N / PE $\sim 50 \mathrm{~Hz} 400 \mathrm{~V} 16 \mathrm{~A}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 1 Off button <br> 1 Keyed On button <br> 3 Phase control lamps <br> 1 CEE socket <br> 1 Emergency Off Switch, unwired <br> 5 Safety lab terminals | $\begin{aligned} & 0 \\ & \hline \end{aligned}$ | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-1B08DE. 480.3020 <br> K5-1B08DE.480.5005 <br> K5-1B08DE.480.7021 |
| Power supply panel with Emergency off <br> Mains voltage $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=240 \mathrm{~mm}$ <br> Equipment: <br> 1 lighted rocker switch <br> 1 Schuko socket (type F) <br> 1 Emergency off switch, unwired |  | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-2B00DE.240.3020 <br> K5-2B00DE. 240.5005 <br> K5-2B00DE. 240.7021 |

## Primus One

## System-Insert panel

## Technical data

| Description |  |  | Ordering no. |
| :--- | :--- | :--- | :--- |
| Power supply panel |  |  |  |
| Mains voltage $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ |  |  |  |
| $\mathrm{~W}=80 \mathrm{~mm}, \mathrm{H}=240 \mathrm{~mm}$ |  |  |  |
| Equipment |  |  |  |
| 2 Schuko sockets (type F) |  |  |  |
| 1 lighted rocker switch |  |  |  | Insert panel traffic red $\quad$ K5-2A00DE.240.3020

Primus One
System-Insert panel

## Technical data



## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Power supply panel with PC multimedia port <br> Mains voltage 1 / N / PE ~50 Hz 230 V 16 A $W=80 \mathrm{~mm}, \mathrm{H}=240 \mathrm{~mm}$ <br> Equipment: <br> 1 lighted rocker switch <br> 1 Schuko socket (type F) <br> 1 PC multimedia port equipped with <br> - 3 USB connections <br> - 2 audio connections, $3.5-\mathrm{mm}$ jack plug <br> - 1 Multi-card reader for SD / MMC / SDHC / <br> MS / MS pro / MS duo / MS pro duo <br> - 1.2-m connection lines with 2 USB/2 pin | © | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2D01DE. 240.3020 <br> K5-2D01DE. 240.5005 <br> K5-2D01DE.240.7021 |
| Power supply panel with PC multimedia port <br> Mains voltage $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 1 lighted rocker switch <br> 4 Schuko sockets (type F) <br> 1 PC multimedia port equipped with <br> - 3 USB connections <br> - 2 audio connections, $3.5-\mathrm{mm}$ jack plug <br> - 1 Multi-card reader for SD / MMC / SDHC / <br> MS / MS pro / MS duo / MS pro duo <br> - 1.2-m connection lines with 2 USB/2 pin | 표 | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2D01DE. 480.3020 <br> K5-2D01DE. 480.5005 <br> K5-2D01DE. 480.7021 |
| Data panel <br> With cut-out $\varnothing 60 \mathrm{~mm}$ for installing customary commercial flush-mounted systems and a PC multimedia port. $W=80 \mathrm{~mm}, \mathrm{H}=240 \mathrm{~mm}$ <br> Equipment: <br> 1 UAE (Universal Connection Unit) double socket (RJ45) 8/8 (8/8), category 6 shielded (unwired) UP (flush mount) <br> 1 PC multimedia port equipped with <br> - 3 USB connections <br> - 2 audio connections, 3.5 - mm jack plug <br> - 1 Multi-card reader for SD / MMC / SDHC / <br> MS / MS pro / MS duo / MS pro duo <br> -1.2-m connection lines with 2 USB/2 pin |  | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-2D02DE. 240.3020 <br> K5-2D02DE.240.5005 <br> K5-2D02DE.240.7021 |

Primus One
System-Insert panel

## Technical data



## System-Insert panel

## Technical data



Primus One

## System-Insert panel

## Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Blank panel <br> (for assembly in shelf superstructure K4-..) $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=330 \mathrm{~mm}$ | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-OL0000.330.3020 K5-OL0000.330.5005 K5-OLOOO0.330.7021 |
| Blank panel (for driveable tables) $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=413 \mathrm{~mm}$ | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-OL0000.413.3020 K5-0L0000.413.5005 K5-OLOOO0.413.7021 |
| Blank panel $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-OL0000.480.3020 K5-OL0000.480.5005 K5-OLOOO0.480.7021 |
| Power supply panel with PC-multimedia port, network connections and Emergengy off switch <br> Mains voltage 1/N/PE ~50 HZ 230 V 16 A $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 1 lighted rocker switch <br> 2 Schuko sockets (type F) <br> 1 Emergency off switch, unwired <br> 2 RJ45 Cat6e throughput receptacles <br> 1 PC multimedia port equipped with <br> - 3 USB connections <br> - 2 audio connections, $3.5-\mathrm{mm}$ jack plug <br> - 1 Multi-card reader for SD / MMC / SDHC / <br> MS / MS pro / MS duo / MS pro duo <br> -1.2-m connection lines with 2 USB/2 pin | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2E04DE.480.3020 <br> K5-2E04DE.480.5005 <br> K5-2E04DE. 480.7021 |
| Data panel with network connection and cable outlet $\varnothing 60 \mathrm{~mm}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=330 \mathrm{~mm}$ <br> Equipment: <br> 4 RJ45 Cat6e throughput receptacles <br> 1 cable outlet $\varnothing 60 \mathrm{~mm}$, black | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-7D00DE.330.3020 <br> K5-7D00DE.330.5005 <br> K5-7D00DE.330.7021 |

## Primus One

## System-Insert panel

## Technical data



Primus One
System-Insert panel

Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Data panel $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=240 \mathrm{~mm}$ <br> Equipment: <br> 1 installation switch Microsens 4-Port 10 / 100 2 USB throughput receptacles |  | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-7S00DE. 240.3020 <br> K5-7S00DE. 240.5005 <br> K5-7S00DE.240.7021 |
| Power supply panel with two network connections <br> Mains voltage $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=240 \mathrm{~mm}$ <br> Equipment: <br> 1 lighted rocker switch <br> 1 Schuko socket (type F) <br> 2 RJ45 Cat6e throughput receptacles |  | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-2D09DE. 240.3020 <br> K5-2D09DE. 240.5005 <br> K5-2D09DE. 240.7021 |
| Compressed air supply $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=240 \mathrm{~mm}$ <br> Equipment: <br> 1 single-handed rapid action valve. Nominal size 5, thread 1 / "" for tubing size $6 / 4$ 1 male coupling, nominal size 5 not connected |  | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-8A01DE. 240.3020 <br> K5-8A01DE. 240.5005 <br> K5-8A01DE.240.7021 |
| Blank plate <br> with cable outlet $\varnothing 60 \mathrm{~mm}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=240 \mathrm{~mm}$ <br> Equipment: <br> Two-part cable set, round, black, $\varnothing 60 \mathrm{~mm}$ |  | Insert panel traffic red <br> Insert panel signal blue <br> Insert panel black grey | K5-0L0100.240.3020 <br> K5-0L0100.240.5005 <br> K5-0L0100.240.7021 |
| Power supply panel <br> with two network connections <br> Mains voltage 1 / N / PE ~50 Hz 230 V 16 A $W=80 \mathrm{~mm}, \mathrm{H}=330 \mathrm{~mm}$ <br> Equipment: <br> 1 lighted rocker switch <br> 3 Schuko sockets (type F) <br> 2 RJ45 Cat6e throughput receptacles |  | Insert panel traffic red Insert panel signal blue Insert panel black grey | K5-2D00DE.330.3020 <br> K5-2D00DE.330.5005 <br> K5-2D00DE.330.7021 |

Safety-Box alternating current
System-Safety-boxes


## Technical features

To protect downstream equipment (power switch panel, power supply panels, socket strips, etc.) with residual current device type A or type B, single- or three phase.
Positioned in the table cable through, easily accessible via cable flap
Mains power connection via terminal block

## Note:

When using residual current device systems in teaching rooms and experimental facilities in which parts
of the electrical equipment may create flat or pure residual currents (e.g. frequency inverters), the residual
current device must absolutely be Type B (AC / DC sensitive) in accordance with VDE 0100, Part 723.412.5!

|  | K5-S1.A | K5-S1.B | K5-S3.A | K5-S3.B |
| :---: | :---: | :---: | :---: | :---: |
| Type | 1/N/PE |  | 3/N/PE |  |
| Mains frequency | $50 \mathrm{~Hz} / 60 \mathrm{~Hz}$ |  |  |  |
| Nominal input voltage | 230 V |  | 400 V |  |
| Maximum power output | 16 A |  |  |  |
| Residual current device | Type A | Type B | Type A | Type B |
| Trigger current | 30 mA |  |  |  |
| Dimensions | $\mathrm{W}=299 \mathrm{~mm}, \mathrm{D}=81 \mathrm{~mm}, \mathrm{H}=80,5 \mathrm{~mm}$ |  |  |  |

## Protection unit

Safety-Modul


Technical features
To protect downstream equipment (power switch panel, power supply panels, socket strips, etc.) with residual current device type A or type B, single- or three phase.
Positioned in the System carrier underneath superstructure or shelfelement

Note:
When using residual current device systems in teaching rooms and experimental facilities in which parts of the electrical equipment may create flat or pure residual currents (e.g. frequency inverters), the residual current device must absolutely be Type B (AC / DC sensitive) in accordance with VDE 0100, Part 723.412.5!

|  | K5-SM1.A | K5-SM1.B | K5-SM3.A | K5-SM3.B |
| :---: | :---: | :---: | :---: | :---: |
| Type | 1/N/PE |  | 3/N/PE |  |
| Mains frequency | $50 \mathrm{~Hz} / 60 \mathrm{~Hz}$ |  |  |  |
| Nominal input voltage | 230 V |  | 400 V |  |
| Maximum power output | 16 A |  |  |  |
| Residual current device | Type A | Type B | Type A | Type B |
| Trigger current |  |  |  |  |

## A Primus One

## ELABO

euromicron Cruppe

## Accessories Primus One

## Primus One

## Accessories

## Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Cover panel |  | For table widh 1200 mm K9-4S B1200 |
| $D=60 \mathrm{~mm}, \mathrm{H}=540 \mathrm{~mm}$ |  | For table width 1500 mm K9-4SB1500 |
| Screen made of sheet metal, conductive, powder-coated. |  | For table width 1600 mm K9-4S B1600 |
| Euro-holes $9.2 \times 9.2 \mathrm{~mm}$ Grid $76 \times 76 \mathrm{~mm}$ |  | For table width 1800 mm K9-4S B1800 |
|  |  | For table width 2000 mm K9-4S B2000 |
| Interchangeable frame profile (2 pieces) $W=976 \mathrm{~mm}, \mathrm{D}=18 \mathrm{~mm}, \mathrm{H}=35 \mathrm{~mm}$ <br> Interchangeable frame profile for insertion of small-parts containers, units and equipment shelves as well as training boards of all common teaching systems. |  | For table width 1200 mm K9-4H B1200 |
|  |  | For table width 1500 mm K9-4H B1500 |
|  |  | For table width 1600 mm K9-4H B1600 |
|  |  | For table width 1800 mm K9-4H B1800 |
| Profiles: <br> -2 anodized aluminum profiles with small groove on top and large groove on bottom to simplify insertion <br> - Fastening strap on each side to allow infinite height adjustment. <br> - optionally with inner lying brush strip for noise reduction | 5 | For table width 2000 mm K9-4H B2000 |
| ELABO multifunction attachment Lighting / Balancer etc. <br> $W=976 \mathrm{~mm}, 1276 \mathrm{~mm}, 1376 \mathrm{~mm}, 1576 \mathrm{~mm}, 1776 \mathrm{~mm}$ <br> $D=450 \mathrm{~mm}, \mathrm{H}=40 \mathrm{~mm}$ <br> For mounting on PrimusOne system profiles K5-1P. <br> The accessory can be mounted on a transversely strut profile screwed. | $\xrightarrow{2}$ | For table width 1200 mm K9-4L B 1200 |
|  |  | For table width 1500 mm K9-4L B1500 |
|  |  | For table width 1600 mm K9-4L B1600 |
|  |  | For table width 1800 mm K9-4L B1800 |
|  |  | For table width 2000 mm K9-4L B2000 |

## Primus One

## Accessories

## Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Perforated plate <br> for table width 1600 mm $W=1375,5 \mathrm{~mm}, \mathrm{D}=24 \mathrm{~mm}, \mathrm{H}=341 \mathrm{~mm}$ <br> Perforated plate with Euro-standard holes $9,2 \times 9,2 \mathrm{~mm}$ (spacing 38 mm ) for accepting brackets and organizer elements Made of sheet steel, powder coated |  | For table width 1200 mm K9-4M B1200 <br> For table width 1500 mm K9-4M B1500 <br> For table width 1600 mm K9-4M B1600 <br> For table width 1800 mm K9-4M B1800 <br> For table width 2000 mm K9-4M B2000 |
| TFT traverse $\begin{aligned} & W=976,1276,1376,1576,1776 \mathrm{~mm} \\ & D=91 \mathrm{~mm}, H=23 \mathrm{~mm} \end{aligned}$ <br> For mounting between the rear system profiles, stepless height adjustment. <br> Profile: <br> - anodized aluminum profile at front and back with grooves; accepts TFT spherical heads P3-5L-2 or support bracket P3-5K-2 - fastening strap on each side to allow infinite height adjustment |  | For table width 1200 mm K9-4T B1200 <br> For table width 1500 mm K9-4T B1500 <br> For table width 1600 mm K9-4T B1600 <br> For table width 1800 mm K9-4T B1800 <br> For table width 2000 mm K9-4T B2000 |
| LED warning light red for indicating that mains voltage is enabled mounted on Primus One System-Profile |  | 94-2C Z619 |
| LED warning light <br> for indicating that mains voltage is enabled green for stage 1 <br> red for stage 2 <br> mounted on a Primus One system profile |  | 94-2C Z618 |

## B Primus Basic ${ }^{\circ}$

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Primus Basic
System-table with cable flap and cable duct


Technical features
centrally arranged fold-away cable flap
Large-volume cable trough accessible from the front
When [the tables are] set up side by side the cabling can be passed straight through Exchangeable front edging (in configuration F- edging)
Height adjusters for leveling on uneven floors
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

Note:
Compatible in row and block formation with Primus One System


Edge strip


## Primus Basic

System-table with cable flap and cable duct

Technical data

| Table top |  |
| :---: | :---: |
| Thickness | 30 mm |
| Front edging | Edge strip 3 mm thick or Flexi-Line edging, exchangeable (F-edging) |
| Coating | HPL laminate 0.8 mm , non-glare, abrasion-resistant in accordance with EN 438, heat-resistant for short periods, highly flame-retardant |
| Colour | light grey RAL 7035 |
| Cable duct |  |
| Dimensions | Height $=150 \mathrm{~mm}$, Depth $=165 \mathrm{~mm}$ |
| Cable flap |  |
| Configuration | Fold-away, with brush strip on the back |
| Maximum load |  |
| Weight loading | 200 kg surface load capacity |
| ESD Variant |  |
| Table top | Same properties as standard model but volume-conductive |
| Configuration | DIN EN 61340-5-1 Part 5-1 |
| Dimensions |  |
| Width | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |
| Depth | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |
| Height | 750 mm |

Ordering no.

| Width $\times$ Depth | F-edging | F-edging ESD | Edge strip | Edge strip ESD |
| :---: | :---: | :---: | :---: | :---: |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1E | Ro-4E | R0-1E.S | R0-4E.S |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1D | Ro-4D | R0-1D.S | Ro-4D.S |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1C | Ro-4C | Ro-1C.S | Ro-4C.S |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1B | Ro-4B | Ro-1B.S | Ro-4B.S |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | R0-1A | Ro-4A | Ro-1A.S | Ro-4A.S |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2E | RO-5E | Ro-2E.S | R0-5E.S |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2D | Ro-5D | Ro-2D.S | R0-5D.S |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2C | RO-5C | Ro-2C.S | R0-5C.S |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2B | Ro-5B | Ro-2B.S | R0-5B.S |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | RO-2A | R0-5A | Ro-2A.S | R0-5A.S |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | RO-3E | RO-6E | RO-3E.S | Ro-6E.S |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | RO-3D | RO-6D | R0-3D.S | R0-6D.S |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | Ro-3C | Ro-6C | Ro-3C.S | Ro-6C.S |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | Ro-3B | Ro-6B | R0-3B.S | Ro-6B.S |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | RO-3A | RO-6A | R0-3A.S | R0-6A.S |

## Primus Basic

System-Table with cable duct



Edge strip


## Primus Basic

## System-Table with cable duct

Technical data

| Table top |  |  |
| :--- | :--- | :---: |
| Thickness | 30 mm |  |
| Front edging | Edge strip 3 mm thick or Flexi-Line edging, exchangeable (F-edging) |  |
| Coating | HPL laminate 0.8 mm, non-glare, abrasion-resistant in accordance <br> with EN 438, heat-resistant for short periods, highly flame-retardant |  |
| Colour | light grey RAL 7035 |  |
| Cable duct |  |  |
| Dimensions | Height $=150 \mathrm{~mm}$, Depth $=165 \mathrm{~mm}$ |  |
| Maximum load | 200 kg surface load capacity |  |
| Weight loading |  |  |
| ESD Variant | Same properties as standard model but volume-conductive |  |
| Table top | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration |  |  |
| Dimensions | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |
| Width | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |  |
| Depth | 750 mm |  |
| Height |  |  |

## Ordering no.

| Width $\times$ Depth | F-edging | F-edging ESD | Edge strip | Edge strip ESD |
| :---: | :---: | :---: | :---: | :---: |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | R0-1E. 6 | R0-4E. 6 | R0-1E.S6 | R0-4E.S6 |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | R0-1D. 6 | Ro-4D. 6 | R0-1D.S6 | R0-4D.S6 |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1C. 6 | R0-4C. 6 | R0-1C.S6 | R0-4C.S6 |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1B. 6 | R0-4B. 6 | R0-1B.S6 | R0-4B.S6 |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1A. 6 | R0-4A. 6 | R0-1A.S6 | R0-4A.S6 |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | R0-2E. 6 | R0-5E. 6 | R0-2E.S6 | Ro-5E.S6 |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2D. 6 | R0-5D. 6 | R0-2D.S6 | R0-5D.S6 |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2C. 6 | R0-5C. 6 | R0-2C.S6 | R0-5C.S6 |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2B. 6 | R0-5B.6 | R0-2B.S6 | R0-5B.S6 |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2A. 6 | R0-5A. 6 | R0-2A.S6 | R0-5A.S6 |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | RO-3E. 6 | R0-6E. 6 | R0-3E.S6 | R0-6E.S6 |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | R0-3D. 6 | R0-6D. 6 | R0-3D.S6 | R0-6D.S6 |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | R0-3C. 6 | R0-6C. 6 | R0-3C.S6 | R0-6C.S6 |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | Ro-3B. 6 | R0-6B.6 | R0-3B.S6 | R0-6B.S6 |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | R0-3A. 6 | R0-6A. 6 | R0-3A.S6 | R0-6A.S6 |

Primus Basic
System-Table


Edge strip


F-edging

## Primus Basic

System-Table

Technical data

| Table top |  |  |
| :--- | :--- | :---: |
| Thickness | 30 mm |  |
| Front edging | Edge strip 3 mm thick or Flexi-Line edging, exchangeable (F-edging) |  |
| Coating | HPL laminate 0.8 mm, non-glare, abrasion-resistant in accordance <br> with EN 438, heat-resistant for short periods, highly flame-retardant |  |
| Colour | light grey RAL 7035 |  |
| Maximum load |  |  |
| Weight loading | 200 kg surface load capacity |  |
| ESD Variant | Same properties as standard model but volume-conductive |  |
| Table top | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration |  |  |
| Dimensions | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |
| Width | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |  |
| Depth | 750 mm |  |
| Height |  |  |

## Ordering no.

| Width $\times$ Depth | F- edging | F- edging ESD | Edge strip | Edge strip ESD |
| :---: | :---: | :---: | :---: | :---: |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | R0-1E. 4 | Ro-4E. 4 | R0-1E.S4 | R0-4E.S4 |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | R0-1D. 4 | R0-4D. 4 | R0-1D.S4 | R0-4D.S4 |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | R0-1C. 4 | R0-4C. 4 | R0-1C.S4 | R0-4C.S4 |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1B. 4 | R0-4B. 4 | R0-1B.S4 | R0-4B.S4 |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | R0-1A. 4 | R0-4A. 4 | R0-1A.S4 | R0-4A.S4 |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | RO-2E. 4 | R0-5E. 4 | R0-2E.S4 | R0-5E.S4 |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2D. 4 | R0-5D. 4 | R0-2D.S4 | R0-5D.S4 |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2C. 4 | R0-5C. 4 | R0-2C.S4 | R0-5C.S4 |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | Ro-2B. 4 | R0-5B. 4 | R0-2B.S4 | R0-5B.S4 |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | RO-2A. 4 | R0-5A. 4 | R0-2A.S4 | R0-5A.S4 |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | R0-3E. 4 | R0-6E. 4 | R0-3E.S4 | R0-6E.S4 |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | Ro-3D. 4 | R0-6D. 4 | R0-3D.S4 | R0-6D.S4 |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | R0-3C. 4 | R0-6C. 4 | R0-3C.S4 | R0-6C.S4 |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | R0-3B. 4 | R0-6B. 4 | R0-3B.S4 | R0-6B.S4 |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | Ro-3A. 4 | R0-6A. 4 | R0-3A.S4 | R0-6A.S4 |

## Primus Basic

System-Table height-adjustable by electric motor



Edge strip


F-edging

## Technical features

Large-volume cable trough accessible from the front
When set up side by side the cabling can be passed straight through
Exchangeable front edging
Height adjusters for leveling on uneven floors
Electrohydraulic height adjustment
Programmable minimum and maximum height/s
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities
Lift capacity 1600 N per column
Travel speed $9 \mathrm{~mm} / \mathrm{s}$

## Primus Basic

## System-Table height-adjustable by electric motor

Technical data

| Table top |  |  |
| :--- | :--- | :---: |
| Thickness | 30 mm |  |
| Front edging | Edge strip 3 mm thick or Flexi-Line edging, <br> exchangeable (F-edging) |  |
| Coating | HPL laminate 0.8 mm, non-glare, abrasion-resistant in accordance <br> with EN 438, heat-resistant for short periods, highly flame-retardant |  |
| Colour | light grey RAL 7035 |  |
| Cable duct |  |  |
| Dimensions |  |  |
| Cable flap |  |  |
| Configuration $=150 \mathrm{~mm}$, Depth $=175 \mathrm{~mm}$ |  |  |
| Maximum load | Fold-away, with brush strip on the back |  |
| Weight loading | 200 kg surface load capacity |  |
| ESD Variant | Same properties as standard model but volume-conductive |  |
| Table top | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |
| Dimensions | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |  |
| Width | E = Electrically from 750 mm to 1200 mm |  |
| Depth |  |  |

Ordering no.

| Width $\times$ Depth | F- edging | F-edging ESD | Edge strip | Edge strip ESD |
| :---: | :---: | :---: | :---: | :---: |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | RO-1E.EC | RO-4E.EC | Ro-1E.SEC | Ro-4E.SEC |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1D.EC | RO-4D.EC | RO-1D.SEC | Ro-4D.SEC |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | RO-1C.EC | R0-4C.EC | RO-1C.SEC | RO-4C.SEC |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | R0-1B.EC | RO-4B.EC | RO-1B.SEC | R0-4B.SEC |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | Ro-1A.EC | RO-4A.EC | Ro-1A.SEC | Ro-4A.SEC |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | R0-2E.EC | RO-5E.EC | Ro-2E.SEC | Ro-5E.SEC |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | R0-2D.EC | R0-5D.EC | Ro-2D.SEC | Ro-5D.SEC |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | R0-2C.EC | R0-5C.EC | Ro-2C.SEC | R0-5C.SEC |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | RO-2B.EC | R0-5B.EC | RO-2B.SEC | R0-5B.SEC |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | RO-2A.EC | RO-5A.EC | Ro-2A.SEC | R0-5A.SEC |
|  |  |  |  |  |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | RO-3E.EC | RO-6E.EC | R0-3E.SEC | Ro-6E.SEC |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | RO-3D.EC | R0-6D.EC | R0-3D.SEC | R0-6D.SEC |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | R0-3C.EC | R0-6C.EC | R0-3C.SEC | R0-6C.SEC |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | R0-3B.EC | RO-6B.EC | R0-3B.SEC | R0-6B.SEC |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | RO-3A.EC | RO-6A.EC | R0-3A.SEC | Ro-6A.SEC |

## B Primus Basic ${ }^{\circ}$

Instrument Shelves

Primus Basic
System-Shelf element


## Technical features

Shelf element made of 30 mm HPL coated board
LED lighting can be integrated
Orga panel can be integrated
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

Note:
nclusive system carrier
Orga panel available separately

## Primus Basic

System-Shelf element

Technical data

| Shelf panel |  |
| :--- | :--- |
| Thickness | 30 mm |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |
| Colour | light grey RAL 7035 |
| Maximum load | 80 kg surface load capacity upt to 1600 mm width <br> 60 kg surface load capacity up to 2000 mm width |
| Weight loading |  |
| ESD Variant | Same properties as standard model but volume-conductive |
| Table top | DIN EN 61340-5-1 Part $5-1$ |
| Configuration |  |
| Dimensions | $1128 \mathrm{~mm}, 1428 \mathrm{~mm}, 1528 \mathrm{~mm}, 1728 \mathrm{~mm}, 1928 \mathrm{~mm}$ |
| Width shelf element | 400 mm |
| Depth | $30 \mathrm{~mm} \mathrm{(+60} \mathrm{~mm} \mathrm{system} \mathrm{carrier)}$ |
| Height |  |

Ordering no.

| Width / for table width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | R4-7E | R4-7L |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | R4-7D | R4-7K |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | R4-7C | R4-7J |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | R4-7B | R4-7H |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | R4-7A | R4-7G |

Suitable system profile (1 pair)
Lenght: 570 mm
R5-1P. 0570

Suitable vertical cable duct

| 2-fold, Width $/$ Height $30 \mathrm{~mm} \times 30 \mathrm{~mm}$ <br> Lenght 570 mm for system profile <br> Lenght 730 mm for table leg | R5-1K.0570 |
| :--- | :--- |

Primus Basic
System function shelf


## Technical features

Function shelf can be steplessly tilted by $30^{\circ}$
Function shelf has slide-prevention edging at the front and the back Stepless height adjustment
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities Two heavy-duty grooves are provided, one at the top and one at the bottom

## Primus Basic

System function shelf

Technical data

| Shelf panel |  |  |
| :--- | :--- | :---: |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Colour | light grey RAL 7035 |  |
| Maximum load | 80 kg surface load capacity upt to 1600 mm width <br> 60 kg surface load capacity up to 2000 mm width |  |
| Weight loading |  |  |
| ESD Variant |  |  |
| Table top | Same properties as standard model but volume-conductive |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 |  |
| Dimensions |  |  |
| Width function shelf | $1128 \mathrm{~mm}, 1428 \mathrm{~mm}, 1528 \mathrm{~mm}, 1728 \mathrm{~mm}, 1928 \mathrm{~mm}$ |  |
| Depth | 400 mm |  |
| Height | 88 mm |  |

Ordering no.

| Width / for table width | Standard | ESD |
| :--- | :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | R4-3E | R4-3L |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | R4-3D | R4-3K |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | R4-3C | R4-3J |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | R4-3B | R4-3H |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | R4-3A | R4-3G |

Suitable accessories

| Function tray | for table width | Height | Depth | Ordering no. |
| :---: | :---: | :---: | :---: | :---: |
|  | 1200 mm | 83 mm | 90 mm | K9-4K B1090 |
|  | 1500 mm | 83 mm | 90 mm | K9-4K B1390 |
|  | 1600 mm | 83 mm | 90 mm | K9-4K B1490 |
|  | 1800 mm | 83 mm | 90 mm | K9-4K B1690 |
|  | 2000 mm | 83 mm | 90 mm | K9-4K B1890 |

Primus Basic
System-Shelf partially equipped


Technical features
Shelf element made of 30 mm HPL coated board
Storage area for customer's own measuring devices and power supplies
Possibility of equipping with Elabo components
LED lighting can be integrated
Orga panel can be integrated
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities


Note:
Including system carrier
Orga panel available separately

## Primus Basic

System-Shelf partially equipped

Technical data

| Shelf panel |  |  |  |
| :---: | :---: | :---: | :---: |
| Thickness | 30 mm |  |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, gasoline and oil |  |  |
| Colour | light grey RAL 7035 |  |  |
| ESD Variant |  |  |  |
| Table top | Same properties as standard model but volume-conductive |  |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 |  |  |
| Dimensions | Width | Mounting Width | Storage Area |
| Width / Equipment | 1128 mm | 114HP | 465 mm |
|  | 1428 mm | 114HP | 765 mm |
|  | 1528 mm | 168HP | 590 mm |
|  | 1728 mm | 168 HP | 790 mm |
|  | 1928 mm | 168 HP | 990 mm |
| Depth | 400 mm |  |  |
| Height | Shelf: 30 mm (+60 mm system carrier) Bench rack: 180 mm (+60 mm system carrier) |  |  |

Ordering no. Bench rack left

| Width / for table width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | R4-7E.3HU | R4-7L.3HU |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | R4-7D.3HU | R4-7K.3HU |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | R4-7C.3HU | R4-7J.3HU |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | R4-7B.3HU | R4-7H.3HU |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | R4-7A.3HU | R4-7G.3HU |

Ordering no. Bench rack right

| Width / for table width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | R4-7E.3HU-RE | R4-7L.3HU-RE |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | R4-7D.3HU-RE | R4-7K.3HU-RE |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | R4-7C.3HU-RE | R4-7J.3HU-RE |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | R4-7B.3HU-RE | R4-7H.3HU-RE |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | R4-7A.3HU-RE | R4-7G.3HU-RE |

Suitable system profile (1 pair)
Lenght: $570 / 720 \mathrm{~mm} \quad 1$ R5-1P.0570_0720

Suitable vertical cable duct

## B Primus Basicº

## System-Channels 3HU

## Primus Basic

System-Channel


## Technical features

Completely electrically pre-wired with device connections
Can be fitted with Elabo devices or third-party devices
Retrofittable LED lighting
Suitable for EPA facilities
Two heavy-duty grooves are provided, one at the top and one at the bottom


## Primus Basic

System-Channel

Technical data

| System-Channel |  |  |
| :--- | :--- | :--- |
| Material | Aluminium <br> Coating Melamine coating, conductive |  |
| Colour | light grey RAL 7035 |  |
| ESD Variant |  | DIN EN 61340-5-1 Part 5-1 |
| Configuration | Width | Equipment |
| Dimensions | 1128 mm | 216 HP |
| Width | 1428 mm | 276 HP |
|  | 1528 mm | 294 HP |
|  | 1728 mm | 332 HP |
|  | 1928 mm | 372 HP |
| Depth |  | 160 mm |
| Height | 3 HU | 142 mm |

Ordering no.

| Width / for table width | ESD |
| :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | $75-4$ C. 3 |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | $75-4$ B. 3 |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | $75-4$ D. 3 |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | $75-4$ A. 3 |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | $75-4$ E. 3 |

Suitable system profile (1 pair)

| Lenght: 712 mm | R5-1P.0712 |
| :--- | :--- |

Suitable vertical Cable duct

| 2-fold, Width / Height $30 \mathrm{~mm} \times 30 \mathrm{~mm}$ <br> Lenght 712 mm for System profile <br> Lenght 730 mm for table leg | R5-1K.0712 |
| :--- | :--- |

## B Primus Basicº

## Bench racks

Primus Basic
System-Bench rack 3HU


## Technical features

Completely electrically pre-wired with device connections
Can be fitted with Elabo devices or third-party devices
Retrofittable LED lighting
Retrofittable Orga panel
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

## Note:

Including system carrier
Orga panel available separately

## Primus Basic

System-Bench rack 3HU

Technical data

| Body |  |  |
| :---: | :---: | :---: |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, gasoline and oil |  |
| Colour | light grey RAL 7035 |  |
| ESD Variant |  |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 Body volume-conductive |  |
| Dimensions | Width | Equipment |
| Width | 1128 mm | 210HP |
|  | 1428 mm | 270HP |
|  | 1528 mm | 288 HP |
|  | 1728 mm | 330 HP |
|  | 1928 mm | 372 HP |
| Depth |  | 350 mm |
| Height | 3 HU | 171 mm <br> (231 mm including system carrier) |

Ordering no.

| Width / for table width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | R4-2E | R4-2L |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | R4-2D | R4-2K |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | R4-2C | R4-2J |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | R4-2B | R4-2H |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | R4-2A | R4-2G |

Suitable system profile (1 pair)

| Lenght: 712 mm | R5-1P. 0712 |
| :--- | :--- |

Suitable vertical cable duct

| 2-fold, Width $/$ Height $30 \mathrm{~mm} \times 30 \mathrm{~mm}$ <br> Lenght 712 mm for system profile <br> Lenght 730 mm for table leg | R5-1K.0712 |
| :--- | :--- |

Primus Basic
System-Bench rack 6HU


## Technical features

Completely electrically pre-wired with device connections
Can be fitted with Elabo devices or third-party devices
Seamless installation of 19" devices
Retrofittable LED lighting
Retrofittable Orga panel
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities


Note:
Including system carrier
Orga panel available separately

## Primus Basic

System-Bench rack 6HU

Technical data

| Body |  | 19 mm |
| :--- | :--- | :--- |
| Thickness | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Coating | light grey RAL 7035 |  |
| Colour |  |  |
| ESD Variant | DIN EN 61340-5-1 Part 5-1 <br> Body volume-conductive |  |
| Configuration | Width | Equipment |
| Dimensions | 1128 mm | 210 HP |
| Width | 1428 mm | 270 HP |
|  | 1528 mm | 288 HP |
|  | 1728 mm | 330 HP |
|  | 1928 mm | 372 HP |
| Depth |  | 375 mm |
| Height | 6 HU | 370 mm <br> $(430 \mathrm{~mm}$ including system carrier) |

Ordering no.

| Width / for table width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | R4-4E | R4-4L |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | R4-4D | R4-4K |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | R4-4C | R4-4J |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | R4-4B | R4-4H |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | R4-4A | R4-4G |

Suitable system profile (1 pair)

| Lenght: 910 mm | R5-1P.0910 |
| :--- | :--- |

Suitable accessories

| Primus One 19" adaption for installation of 19 " front panels and inserts. <br> Consisting of: <br> $2 \times 6 \mathrm{HU}$ screen angles, $2 \times$ guide rails, $2 \times$ front covers, small parts. | K9-4A |
| :--- | :--- |

Suitable vertical cable duct

| 2-fold, Width / Height $30 \mathrm{~mm} \times 30 \mathrm{~mm}$ | R5-1 K.0910 |
| :--- | :--- |
| Lenght 910 mm for system profile |  |
| Lenght 730 mm for table leg |  |

Lenght 910 mm for system profile
Lenght 730 mm for table leg

R5-1K. 0910

Primus Basic
System-Shelf Bench rack


## Technical features

Storage space directly at the workplace
Suitable for DIN A4 file
Shelf version including one height-adjustable shelf
Retrofittable LED lighting
Retrofittable Orga panel
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

## Note:

ncluding system carrier
Orga panel available separately

## Primus Basic

System-Shelf Bench rack

Technical data

| Body |  |  |
| :--- | :--- | :---: |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Colour | light grey RAL 7035 |  |
| ESD Variant |  |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 <br> Body volume-conductive |  |
| Dimensions | Width |  |
| Width | $1128 \mathrm{~mm}, 1428 \mathrm{~mm}, 1528 \mathrm{~mm}, 1728 \mathrm{~mm}, 1928 \mathrm{~mm}$ |  |
| Depth | 375 mm |  |
| Height | 370 mm |  |

Ordering no.

| Width / for table width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | R4-5E | R4-5L |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | R4-5D | R4-5K |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | R4-5C | R4-5J |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | R4-5B | R4-5H |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | R4-5A | R4-5G |

Suitable system profile (1 pair)

| Lenght: 910 mm | R5-1P.0910 |
| :--- | :--- |

Suitable vertical cable duct

| 5-fold, Width / Height $30 \mathrm{~mm} \times 30 \mathrm{~mm}$ <br> Lenght 910 mm for system profile <br> Lenght 730 mm for table leg | R5-1K.0910 |
| :--- | :--- |

## Primus Basic

System-Roller-shutter bench rack


## Technical features

Storage space directly at the workplace
Suitable for DIN A4 file
Roller shutter superstructure with lock and foldable key, optionally centrally lockable
Retrofittable LED lighting
With central position and height adjustable shelf

## Note:

ncluding system carrier
Orga panel available separately

## Primus Basic

## System-Roller-shutter bench rack

Technical data

| Body |  |  |
| :--- | :--- | :---: |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Colour | light grey RAL 7035 |  |
| ESD Variant |  |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 <br> Body volume-conductive |  |
| Dimensions | Width |  |
| Width | $1128 \mathrm{~mm}, 1428 \mathrm{~mm}, 1528 \mathrm{~mm}, 1728 \mathrm{~mm}, 1928 \mathrm{~mm}$ |  |
| Depth | 375 mm |  |
| Height | 370 mm |  |

Ordering no.

| Width / for table width | Standard (including system carrier) | ESD (including system carrier) |
| :--- | :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | R4-8E | R4-8L |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | R4-8D | R4-8K |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | R4-8C | R4-8J |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | R4-8B | R4-8H |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | R4-8A | R4-8G |

Suitable system profile (1 pair)

| Lenght: 910 mm | R5-1P.0910 |
| :--- | :--- |

Suitable vertical cable duct

| 2-fold, Width / Height $30 \mathrm{~mm} \times 30 \mathrm{~mm}$ <br> Lenght 910 mm for system profile <br> Lenght 730 mm for table leg | R5-1K.0910 |
| :--- | :--- |

## Primus Basic

System-Roller-shutter bench rack


## Technical features

Storage space directly at the workplace
Suitable for DIN A4 file
Roller shutter superstructure with lock and foldable key, optionally centrally lockable
Retrofittable LED lighting
With central position and height adjustable shelf

## Note:

Including system carrier
Orga panel available separately

## Primus Basic

## System-Roller-shutter bench rack

Technical data

| Body |  |
| :--- | :--- |
| Thickness | 19 mm |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |
| Colour | light grey RAL 7035 |
| Dimensions | Width |
| Width | $1128 \mathrm{~mm}, 1428 \mathrm{~mm}, 1528 \mathrm{~mm}, 1728 \mathrm{~mm}, 1928 \mathrm{~mm}$ |
| Depth | 375 mm |
| Height | 370 mm |

Ordering no.

| Width / for table width | Standard (including system carrier) |
| :--- | :--- |
| $1128 \mathrm{~mm} / 1200 \mathrm{~mm}$ | R4-6E |
| $1428 \mathrm{~mm} / 1500 \mathrm{~mm}$ | R4-6D |
| $1528 \mathrm{~mm} / 1600 \mathrm{~mm}$ | R4-6C |
| $1728 \mathrm{~mm} / 1800 \mathrm{~mm}$ | R4-6B |
| $1928 \mathrm{~mm} / 2000 \mathrm{~mm}$ | R4-6A |

Suitable system profile (1 pair)
$\qquad$

Suitable vertical cable duct

| 2-fold, Width / Height $30 \mathrm{~mm} \times 30 \mathrm{~mm}$ | R5-1K.0910 |
| :--- | :--- |
| Lenght 910 mm for system profile |  |
| Lenght 730 mm for table leg |  |

## B Primus Basicº

## Accessories Primus Basic

## Primus Basic

Accessories

## Technical data

| Description |  | Order no. |
| :--- | :--- | :--- |
| Cover panel <br> $\mathrm{D}=75 \mathrm{~mm}, \mathrm{H}=570 \mathrm{~mm}$ |  | For table width 1200 mm <br> R9-4S B1200 |
| made of sheet steel, powder coated <br> Holes $9,2 \times 9,2 \mathrm{~mm}$ <br> Grid $76 \times 76 \mathrm{~mm}$ |  | For table width 1500 mm <br> R9-4S B1500 |
|  |  | For table width 1600 mm <br> R9-4S B1600 |
|  |  | For table width 1800 mm <br> R9-4S B1800 |

## C Underbench Cabinets <br> ELABO

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# Undertable cabinets \& PC-holder 

## Undertable cabinets

## Undertable cabinets



Technical data

| Body |  |  |  |  |
| :--- | :--- | :---: | :---: | :---: |
| Thickness | 19 mm |  |  |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |  |  |
| Colour | light grey RAL 7035 |  |  |  |
| Maximum load |  |  |  |  |
| Maximum load-bearing capacity per full pull-out | 45 kg |  |  |  |
| ESD Variant | DIN EN 61340-5-1 Part 5-1 <br> Body and drawer volume-conductive |  |  |  |
| Configuration according to |  |  |  |  |
| Dimensions | 418 mm |  |  |  |
| Width | 587 mm |  |  |  |
| Depth | $188 / 541 \mathrm{~mm}$ |  |  |  |
| Height |  |  |  |  |
| Dimensions (roller container) | 418 mm |  |  |  |
| Width | 600 mm |  |  |  |
| Depth | 631 mm |  |  |  |
| Height |  |  |  |  |

Technical features

- Drawer fronts without handles

All drawers with full pull-out (110\%)
Smooth-running metal drawers with pull-in dampers
Can optionally be converted to a roller container
Central lock with folding key, can optionally be incorporated into a locking system Tamper-proof locking system
Wide choice of organizing elements
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities

## Undertable cabinets

## Undertable cabinets

## Technical data

| Description |  | Order-no. |
| :---: | :---: | :---: |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=200 \mathrm{~mm} \\ & \mathrm{~W}=430 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 1 drawer 2HU <br> All drawers with full pull-out |  | $\begin{aligned} & \text { U1-1A } \\ & \text { U1-4A } \end{aligned}$ |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=550 \mathrm{~mm} \\ & \mathrm{~W}=430 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 1 drawer 3HU <br> 1 drawer 6HU <br> All drawers with full pull-out |  | $\begin{aligned} & \mathrm{U} 1-1 \mathrm{C} \\ & \mathrm{U} 1-4 \mathrm{C} \end{aligned}$ |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=550 \mathrm{~mm} \\ & \mathrm{~W}=430 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: pull-out shelf <br> 1 drawer 2HU <br> 1 drawer 3HU <br> 1 drawer 4HU <br> All drawers with full pull-out |  | $\begin{aligned} & \text { U1-1E } \\ & \text { U1-4E } \end{aligned}$ |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=550 \mathrm{~mm} \\ & \mathrm{~W}=430 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 3 drawers 2HU <br> 1 drawer 3HU <br> All drawers with full pull-out |  | $\begin{aligned} & \text { U1-1F } \\ & \text { U1-4F } \end{aligned}$ |

Technical data

| Description |  | Order-no. |
| :---: | :---: | :---: |
| Roller container <br> Undertable cabinet $\begin{aligned} & H=631 \mathrm{~mm} \\ & \mathrm{~W}=424 \mathrm{~mm} \\ & \mathrm{D}=600 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 1 drawer 3HU <br> 1 drawer 6HU <br> 4 swivel castors $\varnothing 50 \mathrm{~mm}$ cover panel 25 mm <br> All drawers with full pull-out |  | $\begin{aligned} & \text { U1-1C.R } \\ & \text { U1-4C.R } \end{aligned}$ |
| Roller container $\begin{aligned} & \mathrm{H}=631 \mathrm{~mm} \\ & \mathrm{~W}=424 \mathrm{~mm} \\ & \mathrm{D}=600 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 1 drawer 2HE <br> 1 drawer 3HE <br> 1 drawer 4HE <br> 4 swivel castors $\varnothing 50 \mathrm{~mm}$ <br> cover panel 25 mm <br> All drawers with full pull-out |  | U1-1E.R <br> U1-4E.R |
| Roller container $\begin{aligned} & H=631 \mathrm{~mm} \\ & \mathrm{~W}=424 \mathrm{~mm} \\ & \mathrm{D}=600 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 3 drawer 2HE <br> 1 drawer 3HE <br> 4 swivel castors $\varnothing 50 \mathrm{~mm}$ <br> cover panel 25 mm <br> All drawers with full pull-out |  | $\begin{aligned} & \text { U1-1F.R } \\ & \text { U1-4F.R } \end{aligned}$ |

## Undertable cabinets

## Undertable cabinets

## Technical data

| Description |  | Order-no. |
| :---: | :---: | :---: |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=188 \mathrm{~mm} \\ & \mathrm{~W}=418 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 1 drawer 2HE <br> All drawers with full pull-out |  | $\begin{aligned} & \text { U2-1A } \\ & \text { U2-4A } \end{aligned}$ |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=541 \mathrm{~mm} \\ & \mathrm{~W}=418 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 1 drawer 3HE <br> 1 drawer 6HE <br> All drawers with full pull-out |  | $\begin{aligned} & \mathrm{U} 2-1 \mathrm{C} \\ & \mathrm{U} 2-4 \mathrm{C} \end{aligned}$ |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=541 \mathrm{~mm} \\ & \mathrm{~W}=418 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 1 drawer 2HE <br> 1 drawer 3HE <br> 1 drawer 4HE <br> All drawers with full pull-out |  | $\begin{aligned} & \mathrm{U} 2-1 \mathrm{E} \\ & \mathrm{U} 2-4 \mathrm{E} \end{aligned}$ |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=541 \mathrm{~mm} \\ & \mathrm{~W}=418 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 3 drawer 2HE <br> 1 drawer 3HE <br> All drawers with full pull-out |  | $\begin{aligned} & \mathrm{U} 2-1 \mathrm{~F} \\ & \mathrm{U} 2-4 \mathrm{~F} \end{aligned}$ |

Technical data

| Description |  | Order-no. |
| :---: | :---: | :---: |
| Roller container $\begin{aligned} & \mathrm{H}=631 \mathrm{~mm} \\ & \mathrm{~W}=424 \mathrm{~mm} \\ & \mathrm{D}=600 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 1 drawer 3HE <br> 1 drawer 6HE <br> 4 swivel castors $\varnothing 50 \mathrm{~mm}$ <br> cover panel 25 mm <br> All drawers with full pull-out |  | $\begin{aligned} & \text { U2-1C.R } \\ & \text { U2-4C.R } \end{aligned}$ |
| Roller container $\begin{aligned} & \mathrm{H}=631 \mathrm{~mm} \\ & \mathrm{~W}=424 \mathrm{~mm} \\ & \mathrm{D}=600 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 1 drawer 2HE <br> 1 drawer 3HE <br> 1 drawer 4HE <br> 4 swivel castors $\varnothing 50 \mathrm{~mm}$ cover panel 25 mm <br> All drawers with full pull-out |  | $\begin{aligned} & \text { U2-1E.R } \\ & \text { U2-4E.R } \end{aligned}$ |
| Roller container $\begin{aligned} & \mathrm{H}=631 \mathrm{~mm} \\ & \mathrm{~W}=424 \mathrm{~mm} \\ & \mathrm{D}=600 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> pull-out shelf <br> 3 drawer 2HE <br> 1 drawer 3HE <br> 4 swivel castors $\varnothing 50 \mathrm{~mm}$ <br> cover panel 25 mm <br> All drawers with full pull-out |  | $\begin{aligned} & \text { U2-1F.R } \\ & \text { U2-4F.R } \end{aligned}$ |

## Undertable cabinets

## Technical data

| Description |  | Order-no. |
| :---: | :---: | :---: |
| PC- undertable cabinet $\begin{aligned} & \mathrm{H}=541 \mathrm{~mm} \\ & \mathrm{~W}=297 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> leaf door left, side door right both lockable (single key for all locks) 1 ventilation grille in the rear wall |  | $\begin{aligned} & \text { U1-1S } \\ & \text { U1-4S } \end{aligned}$ |
| PC- undertable cabinet $\begin{aligned} & \mathrm{H}=541 \mathrm{~mm} \\ & \mathrm{~W}=297 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> leaf door right, side door left both lockable (single key for all locks) 1 ventilation grille in the rear wall |  | $\begin{aligned} & U 1-1 R \\ & U 1-4 R \\ & \$ \end{aligned}$ |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=541 \mathrm{~mm} \\ & \mathrm{~W}=418 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> leaf door right, lockable <br> 1 shelf unit, height-adjustable |  | $\begin{aligned} & \text { U1-1J } \\ & \text { U1-4J } \\ & \hline \end{aligned}$ |
| Undertable cabinet $\begin{aligned} & \mathrm{H}=541 \mathrm{~mm} \\ & \mathrm{~W}=418 \mathrm{~mm} \\ & \mathrm{D}=587 \mathrm{~mm} \end{aligned}$ <br> Equipment: <br> leaf door left, lockable <br> 1 shelf unit, height-adjustable |  | $\begin{aligned} & \text { U1-1K } \\ & \text { U1-4K } \end{aligned}$ |

## euromicron Gruppe <br> Undertable cabinets Accessories

## Undertable cabinets

Accessories


## Technical features

Set of castors for conversion of a suspended container to a roller container
Dividers for organizing the drawers
Sets of tools according to purpose
Insert trays for the storage of small parts

## Undertable cabinets

Accessories

## Technical data

| Description |  | Order-no. |  |
| :--- | :--- | :--- | :--- |
| Set of castors <br> suitable for Primus One <br> undertable cabinets for <br> subsequent conversion of <br> suspended containers to <br> roller containers <br> Consisting of <br> 4 swivel castors $\varnothing 50 \mathrm{~mm}$ <br> Cover panel 25 mm <br> Including assembly material |  | ESD design | $07-7 \mathrm{~W}$ |

## Undertable cabinets

Accessories

## Technical data

| Description |  | Order-no. |
| :--- | :--- | :--- | :--- | :--- |
| Moulded tray |  |  |
| Polystyrene |  |  |
| with 20 compartments | $326 \mathrm{~mm} \times 470 \mathrm{~mm} \times 35 \mathrm{~mm}$ | $07-8 \mathrm{~A}$ |
| Moulded tray |  |  |
| Polystyrene with 11 |  |  |
| compartments for compo- |  |  |
| nents, small parts, etc. |  |  |


| Description |  | Order-no. |
| :---: | :---: | :---: |
| Tool kits Electronic <br> Foam plastic insert with: <br> 1 flat round pliers <br> 1 heavy-duty combination pliers 180 mm <br> 1 heavy-duty diagonal cutting pliers <br> 1 wire-stripping pliers <br> 1 screwdriver slotted-head $2,5 \mathrm{~mm}$, <br> 1 screwdriver slotted-head $4,0 \mathrm{~mm}$ <br> 1 screwdriver slotted-head $5,5 \mathrm{~mm}$, <br> 1 screwdriver slotted-head $6,5 \mathrm{~mm}$ <br> 1 screwdriver Philips head PH 0 , <br> 1 screwdriver Philips head PH 1 <br> 1 screwdriver Philips head PH 2 <br> 1 socket wrench with 3 C handle, hexagonal $4,0 \mathrm{~mm}$, <br> 1 socket wrench with 3 C handle, hexagonal $5,0 \mathrm{~mm}$ <br> 1 socket wrench with 3C handle, hexagonal $5,5 \mathrm{~mm}$ 1 socket wrench with 3 C handle, hexagonal $6,0 \mathrm{~mm}$ <br> 1 socket wrench with 3 C handle, hexagonal $7,0 \mathrm{~mm}$, <br> 1 socket wrench with 3 C handle, hexagonal $8,0 \mathrm{~mm}$ <br> 1 set of 6 key files <br> 1 pair of precision tweezers, flat, non-glare, 130 mm long |  | 81-8R |
| Tool kits Mechanical <br> Foam plastic insert 1 with: <br> 1 hacksaw <br> 1 scriber 250 mm <br> 1 tool kit, set of 6 <br> 1 pocket slide calipers <br> 1 nylon hammer <br> 1 engineer's hammer ROTBAND-PLUS <br> 1 wooden folding rule 2 m <br> Foam plastic insert 2 with: <br> 1 file brush <br> 1 flat file 8 ", $200 \times 20 \mathrm{~mm}$, cut No. 2 <br> 1 triangular file $8^{\prime \prime}, 200 \times 14 \mathrm{~mm}$, cut No. 2 <br> 1 half-round flat file, $8^{\prime \prime}, 200 \times 20 \mathrm{~mm}$, cut No. 2 <br> 1 flat scraper <br> 1 triangular hollow-ground scraper <br> 1 set of 6 key files |  | 81-8S |
| Tool kits Universal <br> Foam plastic insert 1 with: 1 hacksaw <br> 1 universal pliers $10^{\prime \prime}$, 15 settings <br> 1 single open-end wrench, adjustable, $10^{\prime \prime}$, <br> 1 single open-end wrench, adjustable ' 6 " <br> 1 flat file 8", $200 \times 20 \mathrm{~mm}$, cut No. 2 <br> 1 triangular file 8 ", $200 \times 14 \mathrm{~mm}$, cut No. 2 <br> 1 half-round flat file, $8^{\prime \prime}, 200 \times 20 \mathrm{~mm}$, cut No. 2 <br> 1 engineer's hammer R'OTBAND-PLU'S <br> 1 wooden folding rule 2 m <br> Foam plastic insert 2 with: <br> 1 screwdriver slotted-head $3,0 \mathrm{~mm}$, <br> 1 screwdriver slotted-head $4,0 \mathrm{~mm}$ <br> 1 screwdriver slotted-head $6,5 \mathrm{~mm}$, <br> 1 screwdriver slotted-head $8,0 \mathrm{~mm}$ <br> 1 screwdriver, short-form, slotted-head $5,5 \mathrm{~mm}$ <br> 1 screwdriver Phillips head PH 1, <br> 1 screwdriver Phillips head PH 2' <br> 1 screwdriver Phillips head PH 3 <br> 1 screwdriver, short-form, Phillips head PH 2 <br> 1 screwdriver $150-250 \mathrm{~V}$, slotted-head $3,0 \mathrm{~mm}$ <br> 1 heavy-duty combination pliers 180 mm <br> 1 heavy-duty diagonal cutting pliers 160 mm <br> 1 flat round pliers, $1 \times$ flat round pliers <br> 1 Triple pliers |  | 81-8T |

## System-Orga panel



## Technical features

Optimal wide-area workplace lighting using LED technology Choice between light colours "warm white" and "cold white" Optimal cable routing using cable guides
Lighting can be individually adjusted to the working area Lockable drawer, optionally centrally lockable Small parts container optionally available

Fits the following product ranges:
K4-2... / RO-2...
K4-4... / RO-4...
K4-5... / RO-5...
K4-6... / RO-6...
K4-7... / RO-7...
K4-8... / RO-8...

## System-Orga panel

## Technical data

| Colour temperature |  |  |
| :--- | :--- | :---: |
| LED-lighting | 4000 K (warm white) or 6000 K (cold white) |  |
| Maximum load |  |  |
| Weight loading Orga panel | 10 kg surface load capacity |  |
| Dimensions | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |
| Width | 164 mm |  |
| Depth | 90 mm |  |
| High |  |  |

Ordering no.

| Width | For shelf element <br> 4000 K | For shelf element <br> 6000 K | For bench racks <br> 4000 K | For bench racks <br> 6000 K |
| :--- | :--- | :--- | :--- | :--- |
| 1200 mm | K4-1E.A2 | K4-1E.A3 | K4-1E.T2 | K4-1E.T3 |
| 1500 mm | K4-1D.A2 | K4-1D.A3 | K4-1D.T2 | K4-1D.T3 |
| 1600 mm | K4-1C.A2 | K4-1C.A3 | K4-1C.T2 | K4-1C.T3 |
| 1800 mm | K4-1B.A2 | K4-1B.A3 | K4-1B.T2 | K4-1B.T3 |
| 2000 mm | K4-1A.A2 | K4-1A.A3 | K4-1A.T2 | K4-1A.T3 |

Suitable Accessories


$$
\begin{aligned}
& \text { Accessories boxes (set) consisting of: } \\
& 2 \times W=52 \mathrm{~mm}, D=52 \mathrm{~mm}, H=35 \mathrm{~mm} \\
& 2 \times W=52 \mathrm{~mm}, D=78 \mathrm{~mm}, H=35 \mathrm{~mm} \\
& 2 \times W=52 \mathrm{~mm}, D=104 \mathrm{~mm}, H=35 \mathrm{~mm}
\end{aligned}
$$K9-4

## LED-lighting

Light for assembly underneath function shelf


## Technical features

Slim LED-cabinet luminaire
CRI of 83,1 (X01) / 94,7 (X11) guarantees accurate color rendering
Low power consumption by latest LED-technology
Expandable modularly
Sensor-controlled dimmer module
Swiveling and without glare due to special lens shape

## LED-lighting

Light for assembly underneath function shelf

Technical data

| Specifications |  | X01 (X02) |
| :--- | :---: | :---: |
| Width | 1000 mm | X11 (X12) |
| LED-lighting | 4000 K | 4000 mm |
| LED Spacing | 5 mm | 000 K |
| Radiation angle | ca. $90^{\circ}$ | ca. $90^{\circ}$ |
| Power assumption | 11 W | $24,6 \mathrm{~W}$ |
| Light flux | 623 m | 1250 lm |
| CRI (4000K) | 83,1 | 94,7 |
| Housing temperature | $26^{\circ}$ | $59^{\circ}$ |
| Operating voltage | 24 V | 24 V |
| Features |  |  |
| Sensor-controlled dimmer <br> module | Yes | Yes |
| Mains power supply | Yes | Yes |
| Continuous line of light <br> (Prism structure) | No | Yes |
| Colour accuracy for <br> quality control | No | Yes |
| Expandable | Yes | Yes |

Basic module


Scope of delivery:
1x Luminaire 1000 mm
1x Mains power supply
x Dimmer module (Touch
2x Mounting clip
$x$ Set of fixing materia

Ordering no
75-9D $\times 01$
75-9D X11

Extension module


Scope of delivery
1x Luminaire 300 mm
1x Connecting piece
$2 \times$ Mounting clip
$1 \times$ Set of fixing materia

Ordering no
75-9D 002
75-9D X12

## LED-lighting



## Technical features

Especially slim design
Special prism technique which generates area lighting
Low power consumption by latest LED-technology
Continuously dimmable 0-100\%
Continuous adjustment of LED-lighting from warm-white to cold-white

## LED-lighting

Technical data

| Specifications |  |
| :--- | :---: |
| Width (area light) | 789 mm |
| Width (inspection lamp) | 550 mm |
| LED-lighting | Mixed white (adjustable) |
| Radiation angle | ca. $60^{\circ}$ |
| Power rating (area light) | 70 W |
| Power rating (inspection lamp) | 13 W |
| Light flux | 3615 mm |
| CRI | 80 |
| Ambient temperature | $-10^{\circ} \mathrm{C}-+40^{\circ} \mathrm{C}$ |
| Operating voltage | 48 V |
| Features |  |
| Sensor-controlled dimmer module | Yes |
| Colour temperature adjustable | Yes |
| Expandable | Yes |

Basic module


Scope of delivery:
1x LED-Area light
1x LED-Area light
1x Switching power supply
1 set of fixing material
Ordering no
75-9E X01

Extension module


Scope of delivery:
1x LED-Inspection lamp including fixing material

Ordering no
75-9E X02.

## Workplace lighting



## Technical features

Additional lamp for crossbeam, consisting of self-supporting aluminum profile, anodized
Power supply via WIELAND-plug-in system GST $18 / 3(1 \times I N, 3 \times$ OUT $)$
-With $2 \times$ T5 fluorescent lamp 39W/840, neutral-white
High luminuous efficiency by shiny-anodized reflector
Electronical ballast (EVG) for flicker free high frequency operation at about 40 kHz , flicker free instant start and prevention of stroboscopic effects.
Including On-/ Off-switch (dimmer function optionally available on request)

## Workplace lighting

Technical data

| Specifications |  |
| :--- | :---: |
| Width (luminaire) | 899 mm |
| LED-lighting | Neutral white |
| Power rating | 82 W |
| Light flux | 6200 Im |
| Socket | $2 \times$ T5 HO 39/840 |
| Operating voltage | 230 V |
| Service life (lamps) | 24.000 h |

Scope of delivery:
$1 \times$ Workplace lighting including electronical ballast (EVG) 1x Fixing device (adjustable in inclination)

Ordering no
75-9F X01

Technical data (LED-version)

| Specifications |  |
| :--- | :---: |
| Width (luminaire) | 870 mm |
| LED-lighting | Neutral white |
| Power rating | 30 W |
| Operating voltage | 230 V |
| Service life (lamps) | 50.000 h |

Scope of delivery:
$1 \times$ Workplace lighting including electronical ballast (EVG)
$1 \times$ Fixing device (adjustable in inclination)

Ordering no
75-9F X02

## LED-lighting

Magnifying light

## Technical data

| Description |  | Order no. |
| :---: | :---: | :---: |
| LED-magnifying lamp <br> Including mains power supply <br> $1 \times$ LED module 4W, neutral white, dimmable <br> The ring-shaped LED magnifier lamp permits an object to be enlarged and illuminated with targeted accuracy. The item being examined is enlarged with a magnification of 2.3 by means of a distortion-free Eschenbach plastic lens having a diameter of 70 mm and a power of 5.3 diopters. <br> Note: <br> Suitable rotary adapter P3-5N-3 |  | 85-1E |
| LED-magnifying lamp, dimmable <br> for ESD-areas <br> Consisting of luminaire head, stand pipe with joint. Operating by sensor switch. Dimmer function by pushing button for longer. <br> Including plastic foot for screw connection to work surface Clamping foot optionally available. |  | 85-1EZESD |
| Plug-in transformer <br> Clamp adapter for magnifying luminaire ESD-version |  | 85-1F ZESD |

## E Mobiles

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## Primus One

Carrier Cart Back


## Technical features

Height profiles mounted offset to the rear
Can be individually fitted with transverse elements
Robust base plate
4 large double swivel castors 125 mm diameter, 2 of them lockable


## Technical data

| Dimensions |  |  |
| :--- | :--- | :---: |
| Width | 823 mm |  |
| Depth | 685 mm |  |
| Height | $1187 \mathrm{~mm}, 1667 \mathrm{~mm}, 1907 \mathrm{~mm}$ |  |
| Equippable height for <br> transverse elements | $980 \mathrm{~mm}, 1459 \mathrm{~mm}, 1700 \mathrm{~mm}$ |  |
| Castors | 4 |  |
| Number | 125 mm |  |
| Diameter | 2 |  |
| Lockable |  |  |
| Base plate | 19 mm |  |
| Thickness | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Coating |  |  |
| ESD variant | ESD Configuration |  |
| Castors | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration |  |  |

Ordering no.

| Height | Width | Depth | Ordering no. | Ordering no. for <br> ESD |
| :--- | :--- | :--- | :--- | :--- |
| 1187 mm | 823 mm | 685 mm | K7-1E | K7-1E.ESD |
| 1667 mm | 823 mm | 685 mm | K7-1C | K7-1C.ESD |
| 1907 mm | 823 mm | 685 mm | K7-1A | K7-1A.ESD |

[^1]Primus One
Carrier Cart Center


Technical features
Height profiles mounted in the centre
Can be individually fitted with transverse elements
Robust base plate
4 large double swivel castors 125 mm diameter, 2 of them lockable


## Technical data

| Dimensions |  |  |
| :--- | :--- | :---: |
| Width | 823 mm |  |
| Depth | 685 mm |  |
| Height | $1187 \mathrm{~mm}, 1667 \mathrm{~mm}, 1907 \mathrm{~mm}$ |  |
| Equippable height for <br> transverse elements | $980 \mathrm{~mm}, 1459 \mathrm{~mm}, 1700 \mathrm{~mm}$ |  |
| Castors |  |  |
| Number | 4 |  |
| Diameter | 125 mm |  |
| Lockable | 2 |  |
| Base plate | 19 |  |
| Thickness | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Coating |  |  |
| ESD variant | ESD Configuration |  |
| Castors | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration |  |  |

Ordering no.

| Height | Width | Depth | Ordering no. | Ordering no. for ESD |
| :--- | :--- | :--- | :--- | :--- |
| 1187 mm | 823 mm | 685 mm | K7-1L | K7-1L.ESD |
| 1667 mm | 823 mm | 685 mm | K7-1J | K7-1J.ESD |
| 1907 mm | 823 mm | 685 mm | K7-1G | K7-1G.ESD |

## Primus One

## Accessories Carrier Cart

## Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Function shelf for Carrier Cart back tiltable $\mathrm{W}=704 \mathrm{~mm}, \mathrm{D}=400 \mathrm{~mm}$ |  | $\begin{aligned} & \text { K7-3C } \\ & \text { K7-3C.ESD } \end{aligned}$ |
| Function shelf for Carrier Cart center not tiltable <br> Anti-slip edge at front and back side Heavy load slot at top and buttom $W=704 \mathrm{~mm}, \mathrm{D}=500 \mathrm{~mm}$ |  | $\begin{aligned} & \text { K7-3D } \\ & \text { K7-3D.ESD } \end{aligned}$ |
| Edging strip for function shelf $W=694 \mathrm{~mm}, \mathrm{H}=50 \mathrm{~mm}$ |  | K7-5C |
| Shelf element <br> for Carrier Cart back $W=776 \mathrm{~mm}, \mathrm{D}=400 \mathrm{~mm}, \mathrm{H}=90 \mathrm{~mm}$ <br> Note: <br> Orga panel available separately Including system carrier |  | $\begin{aligned} & \text { K7-3A } \\ & \text { K7-3A.ESD } \end{aligned}$ |
| Interchangeable frame profile made of anodized aluminum $\mathrm{W}=704 \mathrm{~mm}, \mathrm{D}=18 \mathrm{~mm}, \mathrm{H}=35 \mathrm{~mm}$ <br> Note: <br> 1 Set $=2$ pieces |  | K7-4H |

## Primus One

## Accessories Carrier Cart

Technical data

| Description |  |  | Ordering |
| :--- | :--- | :--- | :--- |
| Perforated plate <br> with Euro-standard holes <br> $9,2 \mathrm{~mm} \times 9,2 \mathrm{~mm}$ <br> made of sheet steel, conductive powder coating <br> $\mathrm{W}=704 \mathrm{~mm}, \mathrm{D}=24 \mathrm{~mm}, \mathrm{H}=341 \mathrm{~mm}$ |  |  |  |
| Conductive powder coating <br> suitable for all types of carts |  |  |  |
| W = 704 mm, $\mathrm{D}=400 \mathrm{~mm}, \mathrm{H}=150 \mathrm{~mm}$ |  |  |  |
| Load-bearing capacity 30 kg |  |  |  |

## Primus One

Accessories Carrier Cart

Technical data
E Mobile
ELABO

| Description |  | Ordering |
| :--- | :--- | :--- | :--- |
| System 60 carrier rail |  |  |
| System 60 metal carrier rail for holding sockets and |  |  |
| data bars as well as compressed air supplies. |  |  |
| Height-adjustable, made of powder-coated |  |  |
| sheet steel. |  |  |
| W = 704 mm, $\mathrm{D}=74 \mathrm{~mm}, \mathrm{H}=62 \mathrm{~mm}$ |  |  |



Power Cart


## Primus One

Power Cart back


## Technical features

Electrical wiring can be provided in the profile
Lockable access to bottom assembly
4 large double swivel castors $\varnothing 125 \mathrm{~mm}, 2$ of them lockable Note
Electrical lead (see chapter accessories) and fuse protection (see chapte Primus One panels) have to be ordered additionally


Equipment not contained in package)

## Technical data

| Dimensions |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Width | 975 mm |  |  |  |  |
| Depth | 685 mm |  |  |  |  |
| Height (mounting height) | 1187 / (960) mm, 1667 / (1440) mm, 1907 / (1680) mm |  |  |  |  |
| Castors |  |  |  |  |  |
| Number | 4 |  |  |  |  |
| Diameter | 125 mm |  |  |  |  |
| Lockable | 2 |  |  |  |  |
| Bottom assembly |  |  |  |  |  |
| Storage volume | Width $=840 \mathrm{~mm}$, Depth $=280 \mathrm{~mm}$, Height $=85 \mathrm{~mm}$ |  |  |  |  |
| Theft protection | Lockable flap |  |  |  |  |
| ESD variant |  |  |  |  |  |
| Castors | ESD Configuration |  |  |  |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 |  |  |  |  |
| Ordering no. |  |  |  |  |  |
| Height | Width | Depth | Ordering no. | Ordering no. for ESD |  |
| 1187 mm | 975 mm | 685 mm | K7-2E | K7-2E.ESD |  |
| 1667 mm | 975 mm | 685 mm | K7-2C | K7-2C.ESD |  |
| 1907 mm | 975 mm | 685 mm | K7-2A | K7-2A.ESD |  |

Primus One
Power Cart 3HU


Technical features
With 3 HU electrical bench-rack
Can be fitted with Elabo devices or third-party devices Electrical wiring can be provided in the profile
Lockable access to bottom assembly
4 large double swivel castors $\varnothing 125 \mathrm{~mm}$, 2 of them lockable Note:
Electrical lead (see chapter accessories) and fuse protection (see chapter Primus One panels) have to be ordered additionally


Technical data

| Dimensions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Width | 975 mm |  |  |  |
| Depth | 685 mm |  |  |  |
| Height (mounting height) | 1689 / (1260) mm |  |  |  |
| Mounting width bench rack | 162 HP |  |  |  |
| Castors |  |  |  |  |
| Number | 4 |  |  |  |
| Diameter | 125 mm |  |  |  |
| Lockable | 2 |  |  |  |
| Bottom assembly |  |  |  |  |
| Storage volume | Width $=840 \mathrm{~mm}$, Depth $=280 \mathrm{~mm}$, Height $=85 \mathrm{~mm}$ |  |  |  |
| Theft protection | Lockable flap |  |  |  |
| ESD variant |  |  |  |  |
| Castors | ESD Configuration |  |  |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 |  |  |  |
| Ordering no. |  |  |  |  |
| Height | Width | Depth | Ordering no. | Ordering no. for ESD |
| 1689 mm | 975 mm | 685 mm | K7-2N | K7-2N.ESD |

## Primus One

Power Cart 6HU


Technical features
With 6HU electrical bench rack
Can be fitted with Elabo devices or third-party devices Electrical wiring can be provided in the profile
Lockable access to bottom assembly
4 large double swivel castors $\varnothing 125 \mathrm{~mm}$, 2 of them lockable Note:
Electrical lead (see chapter accessories) and fuse protection (see chapter Primus One panels) have to be ordered additionally.



Equipment not contained in package

Technical data

| Dimensions |  |  |
| :--- | :--- | :---: |
| Width | 975 mm |  |
| Depth | 685 mm |  |
| Height (mounting height) | $1844 /(1260) \mathrm{mm}$ |  |
| Mounting width bench rack | 162 HP |  |
| Castors |  |  |
| Number | 1 |  |
| Diameter | 125 mm |  |
| Lockable | 2 |  |
| Bottom assembly |  |  |
| Storage volume | Width $=840 \mathrm{~mm}$, Depth $=280 \mathrm{~mm}$, Height $=85 \mathrm{~mm}$ |  |
| Theft protection | Lockable flap |  |
| ESD variant |  |  |
| Castors | ESD Configuration |  |
| Configuration | DIN EN 61340-5-1 Part 5-1 |  |

Ordering no.

| Height | Width | Depth | Ordering no. | Ordering no. for <br> ESD |
| :--- | :--- | :--- | :--- | :--- |
| 1844 mm | 975 mm | 685 mm | K7-2Q | K7-2Q.ESD |

## Primus One

## Power Cart accessories

## Technical data

| Description |  | Ordering <br> no. |
| :--- | :--- | :--- |
| Function tray <br> for Power Cart |  | K7-4C |
| Infinitely tiltable to $30^{\circ}$ <br> Anti-slip edge at front and back side <br> Heavy load slot at top and buttom <br> W = 704 mm, $\mathrm{D}=400 \mathrm{~mm}$ |  | K7-4C.ESD |
| Board strip <br> for function tray |  |  |
| W=694 mm, H = 50 mm |  |  |

## Primus One

Power Cart accessories

## Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Add-on table <br> with fold-away cable flap and cable duct <br> Power Cart <br> $W=928 \mathrm{~mm}, \mathrm{D}=650 \mathrm{~mm}, \mathrm{H}=179 \mathrm{~mm}$ <br> For note: <br> Add-on table for mounting between the system profiles, stepless height adjustment. |  |  |
| Perforated plate <br> with Euro-standard holes $9,2 \mathrm{~mm} \times 9,2 \mathrm{~mm}$ made of sheet steel, conductive powder coating $W=704 \mathrm{~mm}, \mathrm{D}=24 \mathrm{~mm}, \mathrm{H}=341 \mathrm{~mm}$ |  | $\mathrm{K7}-4 \mathrm{M}$ |
| Interchangeable frame profile made of anodized aluminum $W=704 \mathrm{~mm}, \mathrm{D}=18 \mathrm{~mm}, \mathrm{H}=35 \mathrm{~mm}$ <br> Note: <br> 1 Set $=2$ pieces |  | k7-4H |
| PC-holder <br> suitable for all types of carts <br> made of sheet steel, conductive powder coating $W=190 \mathrm{~mm}, \mathrm{D}=450 \mathrm{~mm}, \mathrm{H}=200 \mathrm{~mm}$ <br> Height-adjustable on the system profile |  |  |
| TFT traverse <br> made of anodized aluminum profile $\mathrm{W}=704 \mathrm{~mm}, \mathrm{D}=23 \mathrm{~mm}, \mathrm{H}=92 \mathrm{~mm}$ <br> For mounting between the system profiles, stepless height adjustment For accepting accessories, such as TFT brackets |  | K7-5B |

## Primus One

Power Cart accessories

Technical data

| Description |
| :--- |
| Universal carrier rail |
| W = $703 \mathrm{~mm}, \mathrm{D}=25 \mathrm{~mm}, \mathrm{H}=100 \mathrm{~mm}$ |
| Note: |
| For attaching open-front storage containers |
| manufactured by Bosch, Kappes, Schäfer and |
| Treston, cable reels, etc. |
| Stepless height adjustment | Ordering

# System-Laboratory Cart 

## System-Laboratory Cart



## Technical features

Height-adjustable function shelf with transverse profile
4 low-wear double castors fitted with precision ball bearings for easy handling, two of the castors are lockable to position the cart at the workplace
Table top with high load-bearing capacity and exchangeable front edging
ESD [Electrostatic Discharge] variant for EPA [Electrostatic Protective Area] facilities
Width 510 mm (fitting for inclusion of underbench cabinets)


## System-Laboratory Cart

Technical data

| Table top |  |  |
| :--- | :--- | :---: |
| Thickness | 30 mm |  |
| Frontedge | Edge strip 3 mm thick or <br> Flexi-Line edging, exchangeable (F-edging) |  |
| Coating | HPL laminate 0.8 mm, non-glare, abrasion-resistant in accordance <br> with EN 438, heat-resistant for short periods |  |
| Colour | light grey RAL 7035 |  |
| Castors | 75 mm |  |
| Diameter | 4 double swivel castors, 2 of them lockable, with polyurethane tyres |  |
| Configuration |  |  |
| Maximum load | 180 kg |  |
| Maximum weight |  |  |
| ESD variant | Same properties as standard model but volume-conductive |  |
| Table top | DIN EN 61340-5-1 Part 5-1 |  |
| Configuration | Electrically conductive |  |
| Double swivel castors |  |  |
| Dimensions | 510 mm |  |
| Width | $800 \mathrm{~mm} / 900 \mathrm{~mm} / 1000 \mathrm{~mm}$ |  |
| Depth | 750 mm |  |
| Height |  |  |

Ordering no.

| Depth | Width | F- edging | Edge strip | F- edging ESD | Edge strip ESD |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 800 mm | 510 mm | K7-7A | KT-7A.S | K7-7D | K7-7D.S |
| 900 mm | 510 mm | K7-7B | K7-7B.S | K7-7E | K7-7E.S |
| 1000 mm | 510 mm | K7-7C | K7-7C.S | K7-7F | K7-7F.S |

## General accessories

## Interchangeable technology



Technical features
The variable frame technology makes it possible to have individualized adjustment and allocation for alternating work processes. The suspension elements can be adjusted easily and accessibly, depending on the task at hand. The variable frame rails made of extruded aluminum profile are mounted between the vertical profiles. The suspension elements can be simply inserted into the grooves of the aluminum H profiles and slide without difficulty laterally along the entire width of the table or also be replaced with one another.

The support rails can be attached within the vertical profiles at any required position. DIN A4 experiment boards from all common teaching systems can also be attached.

## Technical data



Interchangeable technology

Technical data

| Description |
| :--- | :--- | :--- | :--- | :--- |
| Perforated grid |
| suitable for the mounting of storage boards, storage trays, |
| tool holders and other assembly aids. |
| Perforation $5 \times 10 \mathrm{~mm}$ |
| with 3 mm bridge |

## Grab container

## Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Hanger profile (Primus Basic) <br> For quick attachment and removal of grab containers <br> -For table width $2000 \mathrm{~mm}, \mathrm{~W}=1928 \mathrm{~mm} \times \mathrm{D}=15 \mathrm{~mm} \times \mathrm{H}=30 \mathrm{~mm}$ <br> For table width $1800 \mathrm{~mm}, \mathrm{~W}=1728 \mathrm{~mm} \times \mathrm{D}=15 \mathrm{~mm} \times \mathrm{H}=30 \mathrm{~mm}$ For table width $1600 \mathrm{~mm}, W=1528 \mathrm{~mm} \times \mathrm{D}=15 \mathrm{~mm} \times \mathrm{H}=30 \mathrm{~mm}$ <br> For table width $1500 \mathrm{~mm}, W=1428 \mathrm{~mm} \times D=15 \mathrm{~mm} \times H=30 \mathrm{~mm}$ For table width $1200 \mathrm{~mm}, W=1128 \mathrm{~mm} \times \mathrm{D}=15 \mathrm{~mm} \times H=30 \mathrm{~mm}$ <br> Also available in ESD design |  | $76-2 Y$ $76-2 \mathrm{~A}$ $76-2 \mathrm{~A}$ ZB160 <br> $76-2 B$ <br> $76-2 C$ <br> 76-2C |
| Grab container Standard $W=82 \mathrm{~mm} \times D=86 \mathrm{~mm} \times H=50 \mathrm{~mm}$ $W=82 \mathrm{~mm} \times \mathrm{D}=86 \mathrm{~mm} \times \mathrm{H}=50 \mathrm{~mm}$ <br> $W=123 \mathrm{~mm} \times \mathrm{D}=86 \mathrm{~mm} \times \mathrm{H}=50 \mathrm{~mm}$ |  | $\begin{aligned} & 76-2 E \\ & 76-2 F \\ & 76-2 G \\ & 76-2 H \end{aligned}$ |
| Grab container Standard <br> $W=82 \mathrm{~mm} \times \mathrm{D}=173 \mathrm{~mm} \times \mathrm{H}=50 \mathrm{~mm}$ <br> $W=123 \mathrm{~mm} \times \mathrm{D}=173 \mathrm{~mm} \times \mathrm{H}=50 \mathrm{~mm}$ <br> $\mathrm{W}=82 \mathrm{~mm} \times \mathrm{D}=173 \mathrm{~mm} \times \mathrm{H}=50 \mathrm{~mm}$ $\mathrm{~W}=123 \mathrm{~mm} \times \mathrm{D}=173 \mathrm{~mm} \times \mathrm{H}=50 \mathrm{~mm}$ <br> Also available in ESD design |  | $\begin{aligned} & 76-2 J \\ & 76-2 \mathrm{~K} \\ & 76-2 L \\ & 76-2 \mathrm{M} \end{aligned}$ |
| Grab tongue <br> Standard $\begin{aligned} & W=90 \mathrm{~mm} \times \mathrm{D}=277 \mathrm{~mm} \times \mathrm{H}=54 \mathrm{~mm} \\ & \mathrm{~W}=131 \mathrm{~mm} \times \mathrm{D}=277 \mathrm{~mm} \times \mathrm{H}=54 \mathrm{~mm} \\ & \mathrm{~W}=90 \mathrm{~mm} \times \mathrm{D}=277 \mathrm{~mm} \times \mathrm{H}=54 \mathrm{~mm} \\ & \mathrm{~W}=131 \mathrm{~mm} \times \mathrm{D}=277 \mathrm{~mm} \times \mathrm{H}=54 \mathrm{~mm} \end{aligned}$ |  | $\begin{aligned} & 76-2 N \\ & 76-2 P \\ & 76-20 \\ & 76-2 R \end{aligned}$ |

Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Labelling clip <br> With the labelling clip, the material can be marked easily and securely; the labelling clip fits all grab containers <br> Set of 10 pieces |  | 76-2S |
| Adaptor rail <br> made of PVC, for insertion on the hanger profiles The adaptor rail allows storage containers of various brands to be hung up on the hanger profile $\mathrm{W}=500 \mathrm{~mm} \times \mathrm{D}=6 \mathrm{~mm} \times \mathrm{H}=24 \mathrm{~mm}$ <br> Also available in ESD design |  | 76-2D |
| Grab container- set (Primus Basic) <br> For table width 1800 mm <br> incl. hanger profile rail 76-2A <br> Set consists of: <br> $4 \times$ Grab container $\quad 76-2 \mathrm{~K}, \mathrm{~W}=123 \mathrm{~mm} \times 173 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $7 \times$ Grab trays $\quad 76-2$ F, $W=123 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $2 \times$ Grab trays <br> $76-2 E, W=82 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $2 \times$ Grab container <br> $76-2 \mathrm{~J}, \mathrm{~W}=82 \mathrm{~mm} \times 173 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $1 \times$ labelling clip 76-2S |  | 76-2T |
| Grab container- set (Primus Basic) <br> For table width 1500 mm <br> incl. hanger profile rail $76-2 \mathrm{~B}$ <br> Set consists of: <br> $3 \times$ Grab container $76-2 \mathrm{~K}, \mathrm{~W}=123 \mathrm{~mm} \times 173 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $6 \times$ Grab trays $\quad 76-2 F, W=123 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $1 \times$ Grab tray $\quad 76-2 E, W=82 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $2 \times$ Grab container $76-2 \mathrm{~J}, \mathrm{~W}=82 \mathrm{~mm} \times 173 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $1 \times$ labelling clip $\quad 76-2 S$ <br> Also available in ESD design |  | 76-2U |

Interchangeable technology

Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Grab container- set (Primus Basic) <br> For table width 1200 mm <br> incl. hanger profile rail 76-2C <br> Set consists of: <br> $2 \times$ Grab container $76-2 \mathrm{~K}, \mathrm{~W}=123 \mathrm{~mm} \times 173 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $5 \times$ Grab tray $\quad 76-2 F, W=123 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $1 \times$ Grab tray $\quad 76-2 \mathrm{E}, \mathrm{W}=82 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $2 \times$ Grab container $76-2 \mathrm{~J}, \mathrm{~W}=82 \mathrm{~mm} \times 173 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $1 \times$ Labelling clip $76-2 \mathrm{~S}$ <br> Also available in ESD design |  | 76-2V |
| Grab container- set <br> incl. hanger profile rail 76-1E <br> Set consists of: <br> $3 \times$ Grab tray $\quad 76-2 E, W=82 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $4 \times$ Grab tray $\quad 76-2 F, W=123 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $3 \times$ Grab container $76-2 \mathrm{~J}, \mathrm{~W}=82 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $1 \times$ Grab container $76-2 \mathrm{~K}, \mathrm{~W}=123 \mathrm{~mm} \times 86 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $1 \times$ Labelling clip 76-2S <br> Also available in ESD design |  | 76-2W |
| Grab container- set <br> incl. hanger profile rail 76-1F <br> Set consists of: <br> $9 \times$ Grab container $76-2 \mathrm{~J}, \mathrm{~W}=82 \mathrm{~mm} \times 173 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $3 \times$ Grab container $76-2 \mathrm{~K}, \mathrm{~W}=123 \mathrm{~mm} \times 173 \mathrm{~mm} \times 50 \mathrm{~mm}$ <br> $1 \times$ Labelling clip $76-2 S$ <br> Also available in ESD design |  | 76-2X |
| Accessory box (Set) <br> Set consists of: <br> 2 pieces accessory box black <br> $\mathrm{W}=52 \mathrm{~mm}, \mathrm{D}=52 \mathrm{~mm}, \mathrm{H}=35 \mathrm{~mm}$ <br> 2 Pieces accessory box black <br> $\mathrm{W}=52 \mathrm{~mm}, \mathrm{D}=78 \mathrm{~mm}, \mathrm{H}=35 \mathrm{~mm}$ <br> 2 Pieces accessory box black <br> $\mathrm{W}=52 \mathrm{~mm}, \mathrm{D}=104 \mathrm{~mm}, \mathrm{H}=35 \mathrm{~mm}$ <br> Material: Conductive Polyprohylen |  | Kg-4B |

## Accessories

Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Adapter <br> for mounting acecssories at the front side of Primus One functional shelf. <br> For screws of 5 mm diameter. <br> Made of sheet steel powder coated. Colour black grey RAL 7021. |  | K9-9F |
| Spring nuts for mounting accessories <br> for M5 <br> for M6 <br> for M8 <br> Set consists of 4 nuts with accessories |  | $\begin{aligned} & 78-2 \mathrm{HZM5} \\ & 78-2 \mathrm{H} \\ & 78-2 \mathrm{~J} \end{aligned}$ |
| TFT-holder <br> for mounting on the TFT traverse For VESA mounting 75 / 100 mm including Quick release, load-bearing capacity 8 kg , Reach 125 mm |  | P3-5L-2 |
| TFT- swivel arm for mounting on the TFT traverse <br> For VESA mounting 75 / 100 mm including Quick release, load-bearing capacity 8 kg , Reach 275 mm |  | P3-5K-2 |

## Accessories

## Technical data



## Accessories

Technical data

| Description |  | Ordering <br> no. |
| :--- | :--- | :--- | :--- |
| TFT pivot arm rotation adapter <br> for mounting series P3-5M <br> monitor support arms as well as magnifier lamp |  |  |

## Accessories

Technical data

| Description |
| :--- | :--- | :--- |
| Monitor support arm (aluminum) |
| Height and reach infinitely adjustable. |
| Gas pressure technology for facilitate height adjustment. |
| Monitor connection by quick release. |
| Reach 515 mm |
| VESA-standard 75/100 |
| Load-bearing capacity 7-15 kg |

## Accessories

## Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| TFT-swivel arm <br> for height-adjustable installation on the narrow or broad sides of the profile, for monitors up to 15 kg $D=455 \mathrm{~mm}, \mathrm{H}=200 \mathrm{~mm}$ <br> Consisting of: <br> 1 VESA adapter 75/100 for mounting monitor <br> 2 horizontal pivoting joints <br> 1 ball couplin |  | P3-5K |
| TFT bracket <br> for height-adjustable mounting on the front side of profile, for monitors up to 15 kg $D=125 \mathrm{~mm}, \mathrm{H}=115 \mathrm{~mm}$ <br> Consisting of: <br> 1 VESA adapter 75/100 for mounting monitor <br> 1 horizontal pivoting joint <br> 1 ball couplin |  | P3-5L |
| Keyboard tray <br> with lateral ball-bearing guides, extensible up to 230 mm . Lockable in end positions <br> Height-adjustable in 11 mm grid <br> Clearance dimensions of the tray: <br> $W=600 \mathrm{~mm}, \mathrm{D}=267 \mathrm{~mm}$ <br> $W=680 \mathrm{~mm}, \mathrm{D}=300 \mathrm{~mm}, \mathrm{H}=85 \ldots . .110 \mathrm{~mm}$ |  | 85-4F-1 |
| Keyboard tray <br> with lateral ball-bearing guides, extensible up to 230 mm . Lockable in end positions. <br> Height-adjustable in 11 mm grid <br> Clearance dimensions of the tray: $\begin{aligned} & W=600 \mathrm{~mm}, \mathrm{D}=267 \mathrm{~mm} \\ & \mathrm{~W}=680 \mathrm{~mm}, \mathrm{D}=300 \mathrm{~mm}, \mathrm{H}=85-110 \mathrm{~mm} \end{aligned}$ |  | 85-4F-2 |

Technical data

| Description |  | Ordering no. |
| :---: | :---: | :---: |
| Cable suspension device 2 fold $\mathrm{W}=220 \mathrm{~mm}, \mathrm{D}=61 \mathrm{~mm}, \mathrm{H}=120 \mathrm{~mm}$ <br> Plastic half-shells, white Suitable for storing cables and measuring cables at the Primus One system profile. Including mounting material |  | K9-9K |
| Holder for measuring cables 13 fold $\mathrm{W}=380 \mathrm{~mm}, \mathrm{D}=200 \mathrm{~mm}, \mathrm{H}=25 \mathrm{~mm}$ <br> Consisting of a semicircular measuring cable holder made from aluminum sheet metal, coated with synthetic resin. <br> With 13 slots for hanging up laboratory-type and connecting cables of various diameters, including mounting |  | K9-9N <br> © |
| Cable reel holder made of powder-coated sheet metal suitable for universal carrier rail $W=137 \mathrm{~mm}, \mathrm{D}=220 \mathrm{~mm}, \mathrm{H}=95 \mathrm{~mm}$ <br> For accepting cable reels with a maximum diameter of 200 mm , a width of 105 mm and an internal diameter of 18 mm or 16 mm |  | T3-7A |
| Cable reel holder made of powder-coated sheet metal suitable for universal carrier rail $W=105 \mathrm{~mm}, \mathrm{D}=220 \mathrm{~mm}, \mathrm{H}=95 \mathrm{~mm}$ <br> For accepting cable reels with a maximum diameter of 200 mm , a width of 105 mm and an internal diameter of 18 mm or 16 mm |  | T3-7B |

## G Electronics

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## G Electronics

## ELABO

euromicron Gruppe

Software and networking technology

Elabo Elution ${ }^{\circledR}$ Suite
Elution ${ }^{\circledR}$ Device


Highlights
Elabo Elution® Device simplifies the testing of electrical and electronic components used in research and development, production and quality assurance, as well as for service and repair. In addition to measuring electrical parameters, the software can also process digital and analog signals,

## General data

Scope of delivery: 1 DVD box including Elution® Device, SQL Server Express, operating instructions and online help License: single workstation
Languages: German and English, other languages available on request
Login: password-protected or as Windows user
Operation: mouse, touch, with Windows look \& feel; multiple monitoring possible
SOL platform; local database or server solution
Data export in csv files for further processing
Programming language: $\mathrm{C} \mathrm{\#}$

## Elabo Elution ${ }^{\circledR}$ Suite

## Elution ${ }^{\circledR}$ Device

For research and development
Elabo Elution ${ }^{\oplus}$ Device can reproduce values for you at any time
The recording function gives you continuous logging of all measured values,
without any gaps
With Elution ${ }^{\oplus}$ Device you can carry out long-term test runs fully automatically
The measured values are stored in an SOL database, which means that you can
transfer all data at any time to other platforms
Long-term tests and stress tests
Clock generator
Setpoint/actual value comparison in graphs and tables


For production and quality assurance
With Elabo Elution® you can define a test sequence with chronological processing of test steps that subsequently runs in semi-automatic or fully automatic mode
As required, you can integrate test instructions, digital images or wait steps into the test sequence
You can work with product identifiers such as bar codes, etc. and, as a result, you can track the values of a device throughout its entire lifetime

We also offer the Elution® System software package as part of the Elution® Suite for use in production and quality assurance. Please contact us, if necessary, to determine which program is better suited for your needs

For service and repair
Elabo Elution® Device can reproduce values for you at any time
The recording function gives you continuous logging of all measured values, without any gaps
With Elution ${ }^{\oplus}$ Device you can carry out long-term test runs fully automatically
The measured values are stored in an SOL database, which means that you can transfer all data at any time to other platforms
You can work with product identifiers such as bar codes, etc. and, as a result, you can track the values of a device
throughout its entire lifetime
Troubleshooting is simplified by means of predefined test sequences
Setpoint lists can be programmed for calibration purposes

Operating Systems supported: Windows 7, 32 and 64bit
Devices with ethernet-interface, additional device licences, NET framework hast to be installed on the PC.

Devices, which have or can be equipped with interface, are marked with the symbol "NET". Elabo Elution Device driver is also available

## Elabo Elution ${ }^{\circledR}$ Suite

Elution ${ }^{\circledR}$ Device
Module: System


System administration
User administration
Group administration
Update

## eatures

1. Fine-tuned granting of user rights
2. User-dependent menu structures
. Central configuration of all equipment and systems

## Functions

Assignment of names for devices and equipment
Administration of product types, number ranges
Administration of licenses
Determination of network configuration
Selection of language
Create users and assign rights to them
Create user groups, allocate users and assign rights to them

## Elabo Elution ${ }^{\circledR}$ Suite

## Elution ${ }^{\circledR}$ Device

Module: Interactive window


Direct operation of devices
Graphic display
Logging
Export function

## Features

1. Graph scaling freely adjustable
2. Each individual decimal point can be selected and modified
3. All devices viewable at a glance

## Functions

All active devices displayed
All measured values displayed in one or more graphs
Measuring of Delta $X$ and Delta $Y$ values in the graphic display with possibility of directly comparing the time curves Data logging function with adjustable measurement rate
Storage of measured values in an SOL database (manually, automatically)
On-top function for using individual devices in other applications

## Elabo Elution ${ }^{\circledR}$ Suite

Elution ${ }^{\circledR}$ Device

Module: Sequenzer


## Sequential Test sequenc <br> Statistics

Graphic display

## eatures

1. Chronological, graphic display of the test sequence
2. Permanent display of the current measured values and limit values
3. Permanent logging of all values and storage in the SOL database
4. Showing of instructions
5. Colored display of history with defect identification

## functions

Selection of test plans (manually, automatically)
Fully Automatic test sequence
Status and error reports
Display of all current results
Identification of test object (manually, bar code, RFID
Visualization of all parameters
Display of all GOOD/FAULT statistics
Storage of measured values in an SOL database (automatically)

Elabo Elution ${ }^{\circledR}$ Suite
Elution ${ }^{\oplus}$ Device

Module: Test plans


[^2]Features

1. Input of test parameters is in some cases graphically supported
2. Definition of polarity/connection to the test object required for the test step
3. Incorporation of images is possible
4. Full-screen display of all test results, also as a chart

Functions
Input of basic settings such as test setup, description part, test object identifiers for automatic selection of a test plan
input and parameterization of test steps such as current consumption or required voltage
Incorporation into parameterization of user instructions/visual Test steps/wait steps
Determination of the sequence of the inputted Test steps
Programming of voltage steps and voltage curves for circuit analysis
Programming of automated measurement routines

Elabo Elution ${ }^{\circledR}$ Suite

## Elution ${ }^{\circledR}$ Device

Module: Results \& reports


Measured value browser
Report printout
Export function

## eatures

. 3 Templates for test logs included
2. Database organized by automatically allocating test numbers, also test plans are provided with titles and comments
3. Timeframe for preparation of statistics can be freely selected

Functions
Subsequent access to all stored test results
Export of all data, SOL, CSV, Text
Output of setpoint/actual values, test person ID, date stamp, serial number, equipment number
Preparation of test logs
Traceability of test results

## Elabo Elution ${ }^{\circledR}$ Suite

Elution ${ }^{\oplus}$ Device

Good to know
Convenience assured
It's the end of the working day, and you're not quite finished? With Elabo Elution® that's not a problem. When you start up the computer and the software the next day, you will be exactly at the same point where you left off the day before

Usefulness assured
For task A you only need device B? Then simply drag the device onto the desktop, close the software and continue working conveniently and easily via remote control. This is ideal if you have other programs open or if you just want to avoid having to adjust the speed all the time

Security assured
Elabo devices are frequently connected not just to each other but also to other devices, systems and programs. To make sure that you do not lose any data even in an emergency, we have incorporated numerous security mechanisms. Even in the event of a total outage, you can rest assured that your test results will not be lost and you can continue to work locally with peace of mind.

Functionality assured
Elabo not only offers you all the functions of your devices via the software but goes even further when it comes to power supply panels/power supply systems/variable power supply units. Here, for example, you also have arbitrary functionality and pre-settings

Order number for package N2-1A
Software packages Elution® Device with the module s:
Interactive Window Sequencer
Test plans
Results \& reports
System

Order number for individual device drivers
Device driver for Smart DC N2-5A
Device driver for $A C$ source N2-5D
Device driver for Digital multimeter $\quad$ N2-5G
Device driver for frequency generator $\quad \mathrm{N} 2-5 \mathrm{~N}$
Device driver for BestPerformance N2-7A HV device
Device driver for BestPerformance N2-7B combi-Tester
Device driver for HighPerformance
Device driver for HighPerformance
Note: Elabo Open Interface technology enables to integrate also measuring and power supply devices of other producers into the Elution Software package.

## Elabo Elution ${ }^{\circledR}$ Suite

## Elution ${ }^{\circledR}$ Training

Control and monitoring of classrooms
Modern classrooms are now centrally controlled and monitored. Functions such as two-stage voltage release or he operation of foldaway Systems can be easily selected by mouse click for either a single table or entire rooms The operation of an emergency STOP button is immediately visually indicated


The Elabo software allows classrooms to be faithfully and realistically reproduced and controlled. At all times, a perfect overview of the individual tables guarantees that instruction can proceed smoothly. The monitors at the individual student workstations can be remotely viewed and, if necessary, the instructor can intervene.


Liwithation of devices and organization of experiments
In the course of training, it can perfectly well happen that devices or components become damaged as a result of incorrect wiring or excessively high supply voltages. This is where technology now makes it possible to liwith the output power of devices for specific experimental setups. This means that sensitive components remain protected. Also, the devices can be placed under central remote control from the instructor's desk. For example, where necessary a variable voltage supply can be turned into a fixed voltage source.


Once they have been Created, experimental setups can be selected at any time and sent to the devices in the room. New setups can be Created quickly and transparently and distributed through the network to the devices.

## Elabo Elution ${ }^{\circledR}$ Suite

## Elution ${ }^{\circledR}$ Training

## Measuring like a professiona

Why not use the same tools for training as those used by a professional? Modern-day development laboratories employ networked devices and systems. Automated series of measurements and circuit analyses, combined with continuous documentation, facilitate the functional checking of components and circuits.


Direct input of setpoint values, graphic display of actual values and programming of voltage curves are just a few of the highlights offered by the Elabo software. All networked devices can be represented and controlled by dragging and dropping on the monitor.


Structured preparation and documentation of measurement sequences

Automated quality assurance with complete documenta tion provides the guarantee of product quality in industry. With just a few mouse clicks, simple measurement sequences can be generated and automatically executed The existing devices can be used as measuring devices.

Laboratory experiments for the determination of compo nent characteristics can be easily prepared and executed The result includes the prepared measurement sequence and the achieved measured values.


## Elabo Elution ${ }^{\circledR}$ Suite

## Elution ${ }^{\circledR}$ Training

## Available devices

Elabo offers a wide range of networkable devices.
AC power supplies, 1- and 3-phase
DC stabilizers, 1 x and 2 x
Digital multimeters
Function generators
I/O module s


System environment
The Elabo software is designed for use with Windows 7 and XP operating Systems.
The data are stored in an SQL database, from where data can be exported at any time
Minimum requirements:
CPU: Pentium 4, 2.8GHz
Graphics card: $\quad 128 \mathrm{MB}$ GPU memory
System recommendation:
Memory: Min. 2GB
CPU: Dual Core (Core2Duo with 2.6 GHz or Athlon X 2 with 2.6 GHz )
Graphics card: 256MB GPU non-shared memory graphics card

## Software package

Elabo software package for vocational training.
The package contains the following module s
Interactive Window Sequencer
Multimode Room (instructor's version only)
Measured value printout
User administration and configuration

## Order number: N2-1E Site license

N2-1L Instructor's license for installation on an instructor's computer

## PRODAS

Data. Knowledge. Competitive edge.

## Automaticion of information processes

PRODAS impresses through its functionality
PRODAS is the professional data analysis System for your quality assurance and data analysis. The data and measured values from your Systems are recorded and stored in the PRODAS database. PRODAS accesses these data and allows them to be Interactively evaluated. Analysis can take the form of tables, charts and reports. Pivot Grid enables an ad hoc analysis and interpretation of your data.

## Synergy for you

The trend toward ever greater data transparency explains why software specialists Consipio and test systems manufacturer Elabo have teamed up to develop PRODAS. The interdisciplinary know-how of both these companies has given rise to an outstanding solution for your needs as a customer. A must-have for any company wishing to address the constantly growing demand for information.

Early identification of trends

Advantages by special features
Developed through collaboration between the market/technology leaders
Open import and export structures
Flexible visualization and analysis features
Customizable report functions
Automaticion of information processes
Streamlined and fast retrieval processes thanks to filter functions

Your special advantage
The experienced Consipio team is there to advise you on how to successfully integrate PRODAS within your company in line with your ideas

## Defect analysis and traceability

You operate test systems for quality assurance
PRODAS allows the early identification of trends in your production processes. This enables you to prevent defects and cut costs. Trace defects without liwiths on time and identify previously unknown connected events. Fast and flexible analysis of the required data makes it easier for your employees to understand what is happening and allows them to draw conclusions with regard to hidden problems. This results in continuous process improvements.

## PRODAS

Data. Knowledge. Competitive edge.

## Tracing of data

Detection of defects
Understanding of connected events
Improvement of processes

Wide range of import and export options

Dynamic, flexible, customizable
The processes at your company have grown over the years, been optimized and have developed their own precious dynamism. Our software adapts to your processes by outputting the results in commonly used file formats (Excel, PDF, etc.) at the click of a button. It is also possible to import spreadsheets, which allows your employees to continue with their proven working practices using, for example, Excel - while, however the data remain globally accessible with PRODAS,
Dynamic data in fixed formats
Import from many different sources
Flexibly customizable reports
Variety of export options


Evaluations


Defect analysis


Globally informed through the web interface

## Intranet / interne

RRODAS enables you to access your reports and analyses, in their most recently updated form, from anywhere in the world. Networking delivers advantages across departmental boundaries.
rom quality management to sales, from purchasing to management. Your employees have independent access to all the relevant information they require.
Information at the right time in the right place.

## Network modules

connected to the PC. Customers also can do the assembly integration into existing Elabo bench racks by themselves.

## Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Assembly integration <br> NET <br> networkable |  | Assembly integration Basic <br> - 8 -way switch industry standard <br> - power supply unit <br> - cable set <br> for installation in the Elabo assembly | N3-1A |
| Assembly integration <br> NET <br> networkable |  | Assembly integration <br> 8x10/100/1000Base-T <br> - 8-way swith with holder <br> - power supply unit <br> - patch cable 3 m <br> - cable set <br> for installation in the Elabo assembly | N3-1D |
| Assembly integration <br> NET <br> networkable |  | Assembly integration with optical fibre waveguide technology <br> - 6 -way gigabit Ethernet switch with $2 \times$ SFP LWL module s Multimode LC - power supply unit <br> - cable set <br> for installation in the Elabo assembly | N3-1L |
| Assembly integration <br> NET <br> networkable |  | Assembly integration with VLAN <br> - 8-way switch for VLAN industry standard <br> - power supply unit <br> - cable set <br> for installation in the Elabo assembly | N3-1V |
| Assembly integration <br> NET <br> networkable |  | Assembly integration with WLAN <br> - Access point <br> - 8-way switch including WLAN <br> - power supply unit <br> - cable set <br> for installation in the Elabo assembly | N3-1 W |
| Duplex patch cable Optical fibre waveguide <br> NET <br> networkable |  | LWL duplex patch cable $2 \times 1$ G50/125 $\mu \mathrm{m}$, mini Plug on both sides, each LC/PC dx Casing colour orange <br> Lenth 5 m <br> Lenth $7,5 \mathrm{~m}$ <br> Lenth 10 m <br> Lenth 12 m <br> Lenth 15 m <br> Lenth 23 m | N3-1K Z05M <br> N3-1K Z07,5M <br> N3-1K Z10M <br> N3-1K Z12M <br> N3-1K Z15 M <br> N3-1K Z23M |

## G Electronics

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## System overview 3HU

All module s belonging to the Elabo eurocassette system have a uniform front panel height of $3 \mathrm{HU}=128.5$

Installation variants


3HU eurocassettes and insert panels


System 3HU bench rack


3HU eurocassette



3 HU eurocassettes and insert panels

19" system subrack

## Technical information

Dimensions according to DIN 4149 1 hight unit $=1 \mathrm{HU}=44.45 \mathrm{~mm}$.
The width is determined in pitches:

| 4 HP | $=20,3 \mathrm{~mm}$ |
| ---: | :--- |
| 6 HP | $=30,4 \mathrm{~mm}$ |
| 8 HP | $=40,3 \mathrm{~mm}$ |
| 12 HP | $=60,9 \mathrm{~mm}$ |
| 18 HP | $=91,4 \mathrm{~mm}$ |
| 24 HP | $=121,9 \mathrm{~mm}$ |
| 36 HP | $=182,9 \mathrm{~mm}$ |
| 42 HP | $=213,3 \mathrm{~mm}$ |
| 48 HP | $=243,8 \mathrm{~mm}$ |
| 52 HP | $=264,1 \mathrm{~mm}$ |
| 60 HP | $=304,4 \mathrm{~mm}$ |

Front panels:
he front panels are manufactured from min thick hardened aluminum, powder ,

or which a subdrawer components equired.
equired.
uro-Subdrawers are equipped with 4 nd an 11-pole multiple connector to
41612.

There are also completely closed subdrawers available.


#### Abstract

Subracks: Subracks are required in order to mount fixed panels, subdrawers assemblies in the back uprights of the system 6 HU and $19^{\prime \prime}$.

It is also possible to integrate module s of other manufacturers, providing they standard .


## Central protection- and release module

Eabo mains panels sere used to turn the eentral power supply on and off and provide predection for bench racks cassettes and insert panels are fitted at the factory and are wired ready for operation.

## Technical data

| Description |  |  | $\begin{aligned} & \text { Order no. } \\ & \hline 42-0 B \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Mains supply panel <br> 3HU / 24HP |  | Insert panel with <br> 1 earth-leakage circuit breaker type A 2pole <br> 25 A / 30 mA <br> 1 Automatic circuit breaker 16 A <br> 1 exterior control indicator lamps <br> 1 Off button <br> 1 key-operated On button <br> 1 predector |  |
| Mains supply panel $3 \mathrm{HU} / 36 \mathrm{HP}$ |  | Insert panel with <br> 1 earth-leakage circuit breaker type B 25 A / 30 mA <br> 1 Automatic circuit breaker 16 A <br> 1 key-operated On button <br> 1 Off button <br> 1 contactor <br> 1 phase indicator lamp | 42-0C |
| Mains supply panel $3 \mathrm{HU} / 24 \mathrm{HP}$ |  | Insert panel with <br> 1 earth-leakage circuit breaker type A 2pole $16 \mathrm{~A} / 10 \mathrm{~mA}$ <br> 1 Automatic circuit breaker 16 A <br> 1 exterior control indicator lamps <br> 1 Off button <br> 1 key-operated On button <br> 1 predector | 42-0D |
| Mains supply panel $3 \mathrm{HU} / 60 \mathrm{HP}$ |  | Insert panel with <br> 1 earth-leakage circuit breaker 4pole type A <br> $25 / 30 \mathrm{~mA}$ <br> 1 motor predection circuit breaker 10...16 A with undervoltage trip $230 \mathrm{~V} / 50 \mathrm{~Hz}$ <br> 1 key switch I/O <br> 5 safety lab terminals L1, L2, L3, N, PE <br> 1 CEE socket red 16 A <br> 3 phase indicator lamps | 42-0F |
|  |  | like type 42-0F, but with earth-leakage circuit breaker type B | 42-0G |
| Mains supply panel $3 \mathrm{HU} / 48 \mathrm{HP}$ $\square$ |  | Insert panel with <br> 1 earth-leakage circuit breaker type A 25 A / 30 mA <br> 1 Automatic circuit breaker 3pole C 16 A <br> 1 key-operated On button <br> 1 Off button <br> 1 predector <br> 3 exterior control indicator lamps | $42-\mathrm{OH}$ |
|  |  | like type 42-0H, but with earth-leakage circuit breaker type B <br> Type B, sensitive to universal current, also for plain DC residual currents | 42-0J |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Circuit breaker 3HU / 18HP |  | Insert panel with <br> 1 earth-leakage circuit breaker type A 2pole <br> 25 A/30 mA <br> like type 42-0K, but earth-leakage circuit breaker <br> type B, 24HP | $\begin{aligned} & \hline 42-0 \mathrm{~K} \\ & 42-0 \mathrm{~L} \end{aligned}$ |
| Circuit breaker $3 \mathrm{HU} / 24 \mathrm{HP}$ |  | Insert panel with <br> 1 Earth-leakage circuit breaker Type A 4-pole $25 \mathrm{~A} / 30 \mathrm{~mA}$ <br> like type 42-0M, but earth-leakage circuit breaker type $B$, sensitive o universal current, also for plain DC residual currents, 24 HP | $\begin{aligned} & \hline 42-0 \mathrm{M} \\ & 42-0 \mathrm{~N} \end{aligned}$ |
| Fuse predection and switch panel <br> 3HU / 36HP |  | Insert panel with <br> 1 Automatic circuit breaker 1pole C 16 A <br> 1 key switch I/0/II <br> 1 Off button <br> 2 predectors <br> 1 exterior control indicator lamps <br> 1 signal lamp group I <br> 1 signal lamp group II | $42-0 \mathrm{~V}$ |
| Fuse predection and switch panel <br> $3 \mathrm{HU} / 36 \mathrm{HP}$ |  | Insert panel with <br> 1 Automatic circuit breaker 3pole 16 C A <br> 1 key switch I/0/II <br> 1 Off button <br> 2 predectors <br> 3 exterior control indicator lamps <br> 1 signal lamp group I <br> 1 signal lamp group II | 42-0W |
| Emergency shut off switch <br> $3 \mathrm{HU} / 12 \mathrm{HP}$ |  | Insert panel with <br> 1 Emergency shutoff switch red with a yellow signalring, not wired up <br> like Type 44-1J <br> but with open contact for remote access by Elution software (networking module necessary) <br> like Type 44-1 J <br> but with key shut off switch <br> like Type 44-1J <br> but with second break contact | 44-1J <br> 44-1J Z701 <br> 44-1J Z702 <br> 44-1J Z010 |

## AC power supply fixed

AC- and AC/DC-power supply
1-phase fixed
Technical data

| Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| AC power supply 1-phase |
| 3HU / 36HP |

AC power supply 1 -and 3 -phase fixed

## Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| AC / DC-power supply $3 \mathrm{HU} / 24 \mathrm{HP}$ |  | Eurocassette with floating AC low voltage supply $6,12,18,24,30,36$ und $42 \mathrm{~V} / 3 \mathrm{~A}$ <br> 1 externally switchable bridge rectifier (B2) <br> 4 thermic-magnetic circuit breakers <br> 9 Safety lab terminals <br> 1 Illuminated rocker switch | 44-1B |
| AC / DC-power supply $3 \mathrm{HU} / 36 \mathrm{HP}$ |  | Eurocassette with floating AC low voltage supply $6,12,18,24,30,36$ und $42 \mathrm{~V} / 3 \mathrm{~A}$ <br> 1 externally switchable bridge rectifier (B2) <br> 4 thermic-magnetic circuit breakers <br> 9 Safety lab terminals <br> 1 Illuminated rocker switch | 44-18.37610 |
| CEE-Socket 3HU / 18HP $\square$ |  | Insert panel with Mains supply <br> $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz}$ with <br> 1 CEE-Socket 16 A, blue | 44-1L.37605 |
| CEE-Socket $3 \mathrm{HU} / 24 \mathrm{HP}$ $\square$ |  | Insert panel with Mains supply <br> $3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz}$ with <br> 1 CEE-Socket <br> Insert panel with Mains supply <br> $3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz}$ with <br> 1 CEE-Socket <br> 5 Safety lab terminals L1, L2, L3, N, PE | $44-2 C$ $44-2 C \text { Z001 }$ |
| Safety lab terminals $3 \mathrm{HU} / 12 \mathrm{HP}$ $\square$ |  | Insert panel with Mains supply <br> $3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz}$ with <br> 5 Safety lab terminals L1, L2, L3, N, PE | 44-1x |
| AC power supply 3-phase 3HU / 60HP |  | Insert panel with three-phase currrent supply $3 \sim 10 / 173,3 \vee 5 \mathrm{~A}$ <br> 1 Rotary switch I/O <br> 3 Incandescent bulbs <br> 1 Three-phase transformer with microfuses <br> 3 Thermic-magnetic circuit breakers <br> 4 Safety lab terminals | 44-4E |

## G Electronics

System 3HU

AC power supply, adjustable

Technical data

| Description |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| AC power supply 1-phase |
| $3 \mathrm{HU} / 76 \mathrm{HP}$ |

Cassette for AC- and AC/DC-power supply

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Adjustable <br> AC / DC-power supply <br> $3 \mathrm{HU} / 36 \mathrm{HP}$ |  | Eurocassette with stepless adjustable $A C$ and $D C$ <br> $0 . . .260 \mathrm{~V} / 2 \mathrm{~A}$ not floating <br> 0 ... $42 \mathrm{~V} / 3 \mathrm{~A}$ floating <br> $0 . . .18 \mathrm{~V} / 6 \mathrm{~A}$ floating <br> $0 . . .6 \mathrm{~V} / 15 \mathrm{~A}$ floating <br> 1 separate bridge rectifier (B2) <br> 4 thermic-magnetic circuit breakers <br> 10 Safety lab terminals <br> 1 Illuminated rocker switch | 44-1F |
| Adjustable <br> AC / DC-power supply <br> 3HU / 76HP |  | Eurocassette with stepless adjustable $A C$ and $D C$. <br> $0 . . .260 \mathrm{~V} / 2 \mathrm{~A}$ not floating <br> 0 ... $42 \mathrm{~V} / 3 \mathrm{~A}$ floating <br> 0 ... $18 \mathrm{~V} / 6 \mathrm{~A}$ floating <br> $0 . . .6 \mathrm{~V} / 15 \mathrm{~A}$ floating <br> 1 separate bridge rectifier (B2) <br> 4 thermic-magnetic circuit breakers <br> 10 Safety lab terminals <br> 1 Illuminated rocker switch | 44-4P |
| Adjustable <br> AC / DC-power supply <br> $3 \mathrm{HU} / 52 \mathrm{HP}$ |  | Eurocassette with adjustable floating AC voltage 0... $260 \mathrm{~V} / 3 \mathrm{~A}$ or $0 . . .50 \mathrm{~V} / 10 \mathrm{~A}$ <br> switchable to DC with RW $48 \% 0 . . .260 \mathrm{~V} / 3 \mathrm{~A}$ bzw. $0 . . .50 \mathrm{~V} / 10 \mathrm{~A}$ <br> 1 Voltmeter <br> 1. Range <br> 0... 300 V <br> 2. Range $0 . \ldots 50 \mathrm{~V}$ <br> 1 Ammeter <br> 1. Range <br> 0... 4 A <br> 2. Range $\quad 0 \ldots 10 \mathrm{~A}$ <br> Additional precaution: when switching from DC to AC or from extra low to low voltage, or vice versa, the load must be disconnected from the safety lab terminals. <br> 2 thermic-magnetic circuit breakers <br> $2 \times 3$ Safety lab terminals <br> 2 rocker switches <br> 1 Illuminated rocker switch | 44-1P |
| Smart AC Stabilization byser <br> with follower control <br> $3 \mathrm{HU} / 66 \mathrm{HP}$ <br> NET <br> networkable |  | Eurocassette with floating alternating current voltage $2 \ldots 260 \mathrm{~V} / 2 \mathrm{~A}$, stabilization byzing by electric motor with follower control. <br> Two illuminated LCD displays. <br> Display shows voltage, current and power. <br> 4 programmable voltage values. <br> Output limitation, password-protected <br> Including ethernet and USB interface. | 44-7A |

## AC power supply 3-phase adjustable

labo-cassettes with direct- and alternating current voltage for the supply of devices in labs and test bay. . Voltage adjustment via toroidal variable transformer with turning knob, analog moving iron instruments with RMS display.

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| AC power supply 3-phase $3 \mathrm{HU} / 66 \mathrm{HP}$ |  | Eurocassette with not floating three phase voltage $0 . . .400 \mathrm{~V} / 3 \mathrm{~A}$ with analogue displays <br> 1 illuminated push buttom <br> 3 External conductor indicator lamp <br> 1 Three-phase toroidal with variable transformer with autowindings <br> 3 Thermic-magnetic circuit breakers 1-pole 3 A <br> 1 Three-phase voltmeter $0 . . .400 \mathrm{~V}$ class 2,5 <br> 1 Voltmeter switch <br> 1 Moving iron ammeter 0...4 A Klasse 2,5 <br> 1 Ammeter switch <br> 5 Safety lab terminals | 44-1R |

## G Electronics

## System 3HU

DC-Power supply, fixed

DC-Power supply fixed
Elabo provides also a wide product range in power supply units.

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| DC stabilizer $3 \mathrm{HU} / 24 \mathrm{HP}$ $\square$ Fits into 3 HU alu-channel alu-channe |  | Insert panel DC stabilizer in switching regulator version <br> Transient time: maximum 500 us <br> 2-3 safety lab terminals <br> 1 Illuminated rocker switch <br> $\begin{array}{ll}\text { voltage / current } & \text { Residual ripple } \\ 5 \mathrm{~V} / 5 \mathrm{~A} & 80 \mathrm{mVp}-\mathrm{p}\end{array}$ | 45-5M |
| DC stabilizer <br> 3HU / 24HP |  | Insert panel DC stabilizer in switching regulator version <br> Output voltages $\pm 15 \mathrm{~V} / 2 \mathrm{~A}$ <br> Output on 3 safety lab terminals <br> Output: $2 \times 30 \mathrm{~W}$ <br> Residual ripple: 120 mVp -p <br> Voltage tolerance: $\pm 1.0$ \% <br> Line regulation: $\pm 0,5 \%$ <br> Load regulation: $\quad \pm 0,5 \%$ overload protection | 45-5N |
| DC stabilizer $3 \mathrm{HU} / 24 \mathrm{HP}$ $\square$ |  | Insert panel with switching power supply with clocked output voltages <br> $\pm 12 \mathrm{~V} / 3 \mathrm{~A}$ <br> Output on 3 safety lab terminals <br> Specification: <br> Output: $2 \times 36 \mathrm{~W}$ <br> Residual ripple: 120 mV p-p <br> Voltage tolerance: $\pm 1.0$ \% <br> Line regualation: $\pm 0.5 \%$ <br> Line regulation: $\quad \pm 0.5 \%$ <br> Overload protection: Hiccup mode | 45-5N Z301 |
| DC stabilizer $3 \mathrm{HU} / 24 \mathrm{HP}$ $\square$ Fits into 3 HU alu-channe |  | Insert panel DC stabilizer in switching regulator version <br> Transient time: maximum 500 us <br> 2-3 Safety lab terminals <br> 1 Illuminated rocker switch <br> $24 \mathrm{~V} / 6 \mathrm{~A}$ <br> 150 Vp-p <br> Note: Can't be mounted into 3 HU alu channel | 45-5P |
| DC stabilizer $3 \mathrm{HU} / 42 \mathrm{HP}$ $\square$ Fits into 3 HU alu-channel |  | Insert panel with clocked output <br> voltage $24 \mathrm{~V} / 6 \mathrm{~A}$ <br> outputs to 2 safety lab terminals <br> Rated power: 150 W <br> Residual ripple: 150 mVp -p <br> Voltage tolerance: $\pm 1.0$ \% <br> Line regualation: $\pm 0,5 \%$ <br> Load regulation: $\pm 0,5 \%$ Overload protection | 45-5x |

Regulated $D C$ power supplies with stabilization byzed $D C$ output in voltage and current regulated versions. Fixed output supplies for logic circuits, microprocessors and peripheral module $s$ include up to four different sources. The outputs are galvanically isolated and floating.

## Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| DC stabilizer <br> 3HU / 18HP |  | Eurocassette with DC stabilizer with fixed voltage output <br> Ripple of output voltage: $<5 \mathrm{mV}$ <br> Voltage / Current $5 \mathrm{~V} / 3 \mathrm{~A}$ | 45-1A |
| DC stabilizer for microprocessors $3 \mathrm{HU} / 24 \mathrm{HP}$ |  | Eurocassette with DC stabilizer for generating all needed voltages for microprocessors and peripheral module s: <br> All supplies are equipped with a fixed voltage limitation and a voltage surge predection (OVP). <br> Rest Ripple of output voltage: $<20 \mathrm{mV}$ <br> Transient time: ca. $100 \mu \mathrm{~s}$ <br> 6 Safety lab terminals <br> 1 Illuminated rocker switch <br> 1: $+5 \mathrm{~V} / 5 \mathrm{~A}$, floating, galvanically isolated from output terminals 3 and 4 <br> 2: $-5 \mathrm{~V} / 0,5 \mathrm{~A}$, floating <br> 3: $+12 \mathrm{~V} / 1 \mathrm{~A}$, floating <br> 4: $-12 \mathrm{~V} / 1 \mathrm{~A}$, floating | 45-1G |
| DC stabilizer for microprocessors $3 \mathrm{HU} / 24 \mathrm{HP}$ |  | like Type 45-1G, but with voltage / current <br> 1: $+5 \mathrm{~V} / 5 \mathrm{~A}$, floating, galvanically isolated from output terminals 3 and 4 <br> 2: $-5 \mathrm{~V} / 0,5 \mathrm{~A}$, floating <br> 3: $+15 \mathrm{~V} / 1 \mathrm{~A}$, floating <br> 4: $-15 \mathrm{~V} / 1 \mathrm{~A}$, floating | 45-1H |
| DC stabilizer <br> 3HU / 18HP |  | Eurocassette with DC stabilizer with fixed voltage output <br> Ripple of output voltage: $<5 \mathrm{mV}$ <br> Transient time <br> Load stabilization byzation: $0,1 \%$ <br> Temperature coefficient: $\quad 0,01 \% /{ }^{\circ} \mathrm{C}$ <br> 2 Safety lab terminals <br> 1 Illuminated rocker switch <br> Voltage / Current 24 V / 3 A (24HP) | 45-2M |

# 3HU 

## DC-Power supply, adjustable

Smart DC Lab power supply systems
with arbitrary function


[^3]
## Smart DC Lab power supply systems

with arbitrary function

3 control concepts


Automatic version


Rotary switch version


Touch version

## Operating modes

The different operating modes of dual-output power supply units offer the option to control the output voltage of part 2 as a function $(0-100 \%)$ of part 1 while complying with all control characteristics. Output voltage in serial and parallel operation is drawn from the left channel.

Master-slave operation
Both power module s are electrically isolated from one another, but are controlled together

Parallel operation
Both power module s are connected internally in parallel, so that the double output current can be drawn from the output terminals of power module 1

## Serial operation

Both power module s are connected internally in series. The double output voltage can be drawn from the respective external terminals.

Tracking operation
Both power module $s$ are connected internally in series, so that, with reference to the two terminals in the middle, plus ( +30 V ) or minus ( -30 V ) voltage can be drawn.

Power supply unit with measuring function

Elabo power supply units, in addition to supplying power, are also perfectly suited for the accurate measurement of actua values. Current and voltage values are measured at intervals of 50 ms and can be read out on the interface of the device.

## Device limitation

Output voltage and output current can be limited via remote control or also in local mode. This is particularly useful in a training environment or for predecting sensitive components. Such settings are password-predected

Smart DC Lab power supply systems with arbitrary function

## Arbitrary function

The lab power supply units have an arbitrary function that makes it possible to program and execute predeter mined functions or freely definable voltage and power curves.

The following functions can be selected:

- Sine
- Square
- Triangle
- Sawtooth

- PWM

The freely programmable mode makes it possible to program up to 6 curves each with 99 support points. In this mode, one always presets the start value and end value for current and voltage, and also the duration. In the automatic and rotary switch versions, the arbitrary function can be used only via the interface.

| Power class | 120 W | 300 W | 300 W |
| :--- | :--- | :--- | :--- |
| Feature |  |  |  |
| Channel | 2 | 1 | 1 |
| Voltage | $2 \times 0 \ldots 30 \mathrm{~V}$ | $0 \ldots 30 \mathrm{~V}$ | $0 \ldots 60 \mathrm{~V}$ |
| Current | $2 \times 0 \ldots 2 \mathrm{~A}$ | $0 \ldots 10 \mathrm{~A}$ | $0 \ldots 5 \mathrm{~A}$ |
| Size | $3 \mathrm{HU} / 42 \mathrm{HP}$ | $3 \mathrm{HU} / 66 \mathrm{HP}$ | $3 \mathrm{HU} / 66 \mathrm{HP}$ |
| Version: | $45-6 \mathrm{R}$ |  |  |
| Automatic | $45-7 \mathrm{R}$ | $45-6 \mathrm{G}$ | $45-6 \mathrm{~K}$ |
| Digital | $45-8 \mathrm{R}$ | $45-7 \mathrm{G}$ | $45-7 \mathrm{~K}$ |
| Touch | $45-8 \mathrm{G}$ | $45-8 \mathrm{~K}$ |  |

Smart DC Laboratory power supply system


Smart DC Laboratory power supply system

Technical data

| Voltage |  |
| :---: | :---: |
| Output voltage | $2 \times 0 \ldots 30 \mathrm{~V}$ |
| Adjusting resolution | 10 mV |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0,15\% $\pm 3$ Digits |
| Residual ripple | type $0,75 \mathrm{mV}_{\text {eff }}$ max. 1 mV eff |
| Current |  |
| Output current | $2 \times 0 \ldots 2 \mathrm{~A}$ |
| Adjusting resolution | 1 mA |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0,15\% $\pm 3$ Digits |
| Arbitrary function |  |
| Number of support points | $6 \times 99$ Support points |
| Structure of support points | Start/stop voltage, start/stop current, time |
| Predefined curves for | Sine, triangle, square, sawtooth and more (up to 10 Hz ) |
| Operation | Digial version, automatic version: via interface/Elution® software, Touch version: via display |
| General information |  |
| Regulation | Linear regulator with stepped pre-control |
| Stabilization byty over 8 hours | 0,3\% |
| Adjusting resolution | 12 bit |
| Protection | Short circuit-proof, thermal overload protection, interference voltage protection |
| Output insulation | Ungrounded and isolated $\pm 250 \mathrm{~V}$ to ground |
| Humidity | 25-75 \% rel. humidity |
| Operating temperature range | $0 \ldots .20^{\circ} \mathrm{C}$ |
| Mains supply | $230 \mathrm{~V} \pm 10 \%, 49-61 \mathrm{~Hz}$ |
| Display | Rotary switch version $2 x$ two-line LCD, blue Touch operation $4.3^{\prime \prime} \times 128$ pixels, blue |
| Interface | Ethernet and USB, RS232 alternative to USB |
| Degree of protection | Protection class I (EN61010-1) |
| Power consumption | 140 W |
| Cassette dimensions | $W=213,3 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ |
| Weight | $5,3 \mathrm{~kg}$ |

Highlights
4 operating modes for master-slave operation/dual output voltage ( $0-60 \mathrm{~V}$ )/dual output current ( $0-4 \mathrm{~A}$ )/ symmetrical voltage supply ( $\pm 30 \mathrm{~V}$ )
Output limitation, password-predected
Predefinable power-ON values
Direct and remote control operation in parallel possible
Interference voltage predection
Ethernet and USB interfaces
Arbitrary function

## Scope of delivery

45-xR. 3 Cassette 3HU / 42HP
Accessories
83-5B ZBL Safety test lead blue 100 mm
83-5B ZRT Safety test lead red 100 mm
Recommended additional products
N2-1A Elabo software package Elution ${ }^{\oplus}$ Device
N2-5A Elution ${ }^{\oplus}$ Device driver Smart DC

## NET

networkable

Smart DC Laboratory power supply system 0... 30 V / 0... 10 A / 300 W


45-6G. 3


45-8G. 3

## Highlights

Output limitation, password-protected
Display for voltage, current and powe
Predefinable power-ON values
Direct and remote control operation in parallel possible
Interference voltage protection
Ethernet and USB interfaces
Arbitrary function
Scope of delivery
45-xG. 3
Cassette $3 \mathrm{HU} / 66 \mathrm{HP}$

Accessories
83-5B ZBL Safety test lead blue 100 mm
83-5B ZRT Safety test lead red 100 mm
Recommended additional products
$\begin{array}{ll}\text { N2-1A } & \text { Elabo software package Elution }{ }^{\oplus} \text { Device } \\ \text { N2-5A } & \text { Elution }{ }^{\oplus} \text { Device driver Smart DC }\end{array}$
N2-5A Elution ${ }^{\oplus}$ Device driver Smart DC


## Technical data

| Voltage |  |
| :---: | :---: |
| Output voltage | $0 . . .30 \mathrm{~V}$ |
| Adjusting resolution | 10 mV |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0,15\% $\pm 3$ Digits |
| Residual ripple | $<2 \mathrm{mV}$ eff |
| Current |  |
| Output current | 0... 10 A |
| Adjusting resolution | 10 mA |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0,15\% $\pm 3$ Digits |
| Residual ripple | $<1 \mathrm{~mA}_{\text {eff }}$ |
| Arbitrary function |  |
| Number of support points | $6 \times 99$ Support points |
| Structure of support points | Start/stop voltage, start/stop current, time |
| Predefined curves for | Sine, triangle, square, sawtooth and more (up to 10 Hz ) |
| Operation | Digial version, automatic version: via interface/Elution®software, Touch version: via display |
| General information |  |
| Regulation | Linear regulator with stepped pre-control |
| Stabilization byty over 8 hours | 0,3 \% |
| Adjusting resolution | 12 bit |
| Protection | Short circuit-proof, thermal overload protection, interference voltage protection |
| Output insulation | Ungrounded and isolated $\pm 250 \mathrm{~V}$ to ground |
| Humidity | 25-75\% relative humidity |
| Operating temperature range | 0...50 ${ }^{\circ} \mathrm{C}$ |
| Mains supply | $230 \mathrm{~V} \pm 10 \%, 49-61 \mathrm{~Hz}$ |
| Display | Rotary switch version $2 x$ two-line LCD, blue <br> Touch operation 4.3" $\times 128$ pixels, blue |
| Interface | Ethernet and USB, RS232 alternative to USB |
| Degree of protection | Protection class I (EN61010-1) |
| Power consumption | 345 W |
| Cassette dimensions | $W=334,8 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ |
| Weight | $12,7 \mathrm{~kg}$ |




45-8K. 3

## Highlights

- Output limitation, password-protected

Display for voltage, current and powe
Predefinable power-ON values
Direct and remote control operation in parallel possible
Interference voltage protection
Ethernet and USB interfaces
Arbitrary function

## Scope of delivery

45-xK. 3
Cassette $3 \mathrm{HU} / 66 \mathrm{HP}$
Accessories
83-5B ZBL Safety test lead blue 100 mm
83-5B ZRT Safety test lead red 100 mm
Recommended additional products
N2-1A Elabo software package Elution ${ }^{\oplus}$ Device N2-5A Elution ${ }^{\oplus}$ Device driver Smart DC

Technical data

| Voltage |  |
| :---: | :---: |
| Output voltage | $0 . . .60 \mathrm{~V}$ |
| Adjusting resolution | 10 mV |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0,15\% $\pm 3$ Digits |
| Residual ripple | $<2 \mathrm{mV}$ eff |
| Current |  |
| Output current | 0...5 A |
| Adjusting resolution | 10 mA |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0,15\% $\pm 3$ Digits |
| Residual ripple | $<1 \mathrm{~mA}_{\text {eff }}$ |
| Arbitrary function |  |
| Number of support points | $6 \times 99$ Support points |
| Structure of support points | Start/stop voltage, start/stop current, time |
| Predefined curves for | Sine, triangle, square, sawtooth and more (up to 10 Hz ) |
| Operation | Digital version, automatic version:via Interface/Elution ${ }^{\oplus}$ <br> Software, Touch version:via Display |
| General information |  |
| Regulation | Linear regulator with stepped pre-control |
| Stabilization byty over 8 hours | 0,3\% |
| Adjusting resolution | 12 bit |
| Protection | Short circuit-proof, thermal overload protection, interference voltage protection |
| Output insulation | Ungrounded and isolated $\pm 250 \mathrm{~V}$ to ground |
| Humidity | 25-75\% relative humidity |
| Operating temperature range | $0 \ldots . .5{ }^{\circ} \mathrm{C}$ |
| Mains supply | $230 \mathrm{~V} \pm 10 \%, 49-61 \mathrm{~Hz}$ |
| Display | Rotary switch version $2 x$ two-line LCD, blue Touch operation 4.3" $\times 128$ pixels, blue |
| Interface | Ethernet and USB, RS232 alternative to USB |
| Degree of protection | Protection class I (EN61010-1) |
| Power consumption | 345 W |
| Cassette dimensions | $W=334,8 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ |
| Weight | $12,8 \mathrm{~kg}$ |

## NET

networkable

Insert panel DC-power supply adjustable Elabo offers a wide range of products, not only in testing devices and meters but also in

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Adjustable DC stabilizer 3HU/ 60HP $\square$ Fits into 3HU alu-channel |  | Insert panel with DC stabilizer $0 . . .30 \mathrm{~V} / 0 \ldots 1,5 \mathrm{~A}$ <br> 1 Digital display V/A switch-selected <br> 2 10-turn potentiometers | 45-5F |
| Adjustable DC stabilizer $3 \mathrm{HU} / 60 \mathrm{HP}$ $\square$ |  | $\begin{aligned} & \text { Insert panel with DC stabilizer } \\ & 2 \times 0 \ldots . .30 \mathrm{~V} / 0 \ldots 1 \mathrm{~A} \\ & 2 \text { Voltmeter and ammeter, digital } \\ & 2 \times 210 \text {-turn potentiometers } \end{aligned}$ | 45-5U |
| Adjustable DC stabilizer 3HU / 84HP $\square$ |  | Insert panel with DC stabilizer $0 \ldots . .30 \mathrm{~V} / 0 \ldots 3 \mathrm{~A}$ <br> 2 Digital displays <br> 2 10-turn potentiometers | 45-5G |
| Adjustable DC stabilizer $3 \mathrm{HU} / 84 \mathrm{HP}$ $\square$ NET <br> Fits into 3 HU alu-channel <br> networkable |  | Insert panel with DC stabilizer <br> $2 \times 0 \ldots 30 \mathrm{~V} / 0 \ldots 2 \mathrm{~A}$ <br> 2 Digital display, switch-selected <br> 2 presets for voltage limitation and current <br> limitation voltage and current are <br> continuously adjustable <br> $2 \times 2$ 10-turn potentiometers <br> 2 Rocker pushbutton switch for output on/off <br> Option: Ethernet Interface 2-fach | 45-5U Z801 N3-4Q Z102 |

## Measuring- and signal devices

Smart multimeter

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Digital-multimeter | , - - | nsert panel with $51 / 2$ digit digitalmultimeter | $41-1 \mathrm{~N}$ |
| NET |  | DC voltage measuring Range: 0,2-2-20-200-1000 V |  |
|  |  | DC voltage measuring <br> Range: 0,2-2-20-200-2000mA-20A max. Resolution: |  |
|  |  | Alternating current voltage measuring Range: 0,2-2-20-200-750 V |  |
|  |  | AC voltage measuring <br> Range: 0,2-2-20-200-2000 mA-20 A max. Resolution: 0,0001 mA (in $200 \mu$ A-Range) |  |
|  |  | Resistance measurement <br> Range: $0,2 \mathrm{k} \Omega-2 \mathrm{k} \Omega-20 \mathrm{k} \Omega-200 \mathrm{k} \Omega-2 \mathrm{M} \Omega-20 \mathrm{M} \Omega$ <br> max. Resolution: $0,001 \mathrm{k} \Omega$ (in $200 \mathrm{k} \Omega$ - Range) <br> max. allowed measuring voltage: 230 V AC |  |
|  |  | Temperature measurement Range $-100 \ldots+250$ (with PT100 probe; please order probe additionally) |  |
|  |  | Frequency measurement Range $0 . . .50 \mathrm{kHz}$ |  |
|  |  | Diode test |  |
|  |  | Range switching: automatic / manual switching asic accuracy. 0,05\% |  |
|  |  | Further specifications on request. |  |
|  |  | Suitable temperature sensor: | 42-15 241-1N |
|  |  | Immersion temperature sensor | 42-1U Z41-1N |
|  |  | Surface temperature sensor | N3-4P 2102 |
|  |  | Option: Ethernet Interface | 83-5M |
|  |  | Accessories: <br> Measuring leads / test probes / alligator chips etc. |  |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Multimeter 3HU / 52HP |  | Brand type Fluke 8845a <br> dot matrix graphic display <br> Interfaces: <br> 1x RS 232 <br> IEEE-488.2 <br> 1x Ethernet <br> Measurement range A/AC: $1 \mu \mathrm{~A}$... 10 A <br> Measurement range V/AC: $100 \mathrm{nV} . . .750 \mathrm{~V}$ <br> Measurement range A/DC: 100 pA ... 10 A <br> Measurement range V/DC: $100 \mathrm{nV} . .1000 \mathrm{~V}$ <br> Measurement range Frequenz: $1 \mu \mathrm{~Hz}-300 \mathrm{kHz}$ <br> basic accuracy: $\pm 0.0035 \%$ <br> Display: VFD-dot matrix <br> Measurement range resistance: $100 \mu \mathrm{O}-100 \mathrm{MO}$ <br> Operating temperature range $0^{\circ} \ldots 50^{\circ} \mathrm{C}$ <br> Mains supply <br> $90 . . .240$ V AC <br> 90... 240 V AC <br> < 15 VA <br> Further specifications on request. | $\begin{aligned} & \text { 41-1H.3-3-EBS } \\ & 41-1 \mathrm{H} .3- \\ & \text { Module } \end{aligned}$ |
| Multimeter $3 \mathrm{HU} / 84 \mathrm{HP}$ <br> NET <br> alu-channel <br> networkable |  | Insert panel with multifunctional display. Brand Janitza for measuring saving and monitoring of electrical values as: voltage, current, frequency, power factor, effective power, apparent power, reactive power, per phase and in total, active power, Cos Phi <br> Measuring accuracy (related to nominal value) Current, Voltage $\pm 0,2 \%$, Leistung $\pm 0,5 \%$ Power factor $\pm 0,5 \%$, Energie $\pm 0,5 \%$ Frequenz $\pm 0,02 \mathrm{~Hz}$ (absolut) <br> Design: supply voltage connection and consumer via $2 \times 5$ safety lab terminals $\mathrm{L} 1, \mathrm{~L} 2, \mathrm{~L} 3, \mathrm{~N}, \mathrm{PE}$; including Ethernet-Interface | 41-11.37803 |
| Cassette for Hameg modules 3HU / 42HP |  | Eurocassette for receiving Hameg-module s of series 8000 <br> Following module s can be equipped: <br> - Function generator HM8030-6 <br> - Digital multimeter HM8012 <br> - L/C measuring device HM8018 <br> More information about the module s see chapter G3.6 | 41-1M. 38801 <br> 35-4M <br> 35-4L <br> $35-4 \mathrm{~N}$ |

## Smart FG Function generator

$10 \mathrm{mHz}-20 \mathrm{MHz}$


Highlights
Quartz-stabilization byzed DDS function generato
Signale: Sinus, Square, Triangle, Pulse, DC voltage
AC output amplitude: $1 \mathrm{mV}-20 \mathrm{Vss}$ (no load)
DC offset voltage: $\pm 10 \mathrm{~V}$ (ide)
Operating modes: continuous, frequency sweep, amplitude ramp/offset ramp, pulse width module ation
Frequency and event counter
Trigger/module ation internal/external
Touch display with blue LED lighting, multilingual
Ethernet and USB interfaces
Scope of delivery
43-1R.3 / A3-6T. $3 \quad$ Cassette 3HU / 42HP
Recommended additional products:

| $\mathrm{N} 2-1 \mathrm{~A}$ | Elabo software package Elution ${ }^{\oplus}$ Device |
| :--- | :--- |
| $\mathrm{N} 2-5 \mathrm{~N}$ | Elution ${ }^{\oplus}$ Device driver function generato |

NET
networkable

Smart FG Function generator
$10 \mathrm{mHz}-20 \mathrm{MHz}$

| Signal types |  |
| :---: | :---: |
| Sinus | $10 \mathrm{mHz}-20 \mathrm{MHz}$ |
| Square | $10 \mathrm{mHz}-20 \mathrm{MHz}$ |
| Triangle | $10 \mathrm{mHz-1} \mathrm{MHz}$ |
| Pulse | $10 \mathrm{mHz-1} \mathrm{MHz}$, Duty cycle 5-95\%, Resolution 1\% |
| Frequency resolution | $10 \mathrm{mHz} \leq 10 \mathrm{kHz}$ <br> $100 \mathrm{mHz} \leq 100 \mathrm{kHz}$ <br> $1 \mathrm{~Hz} \leq 1 \mathrm{MHz}$ <br> $10 \mathrm{~Hz} \leq 10 \mathrm{MHz}$ <br> $100 \mathrm{~Hz} \leq 20 \mathrm{MHz}$ |
| Frequency accuracy | 25 ppm |
| AC output amplitude | $1 \mathrm{mV}-20 \mathrm{Vss}$ (idle) <br> Resolution: $1 \mathrm{mV} \leq 2,5 \mathrm{~V}, 2,5 \mathrm{mV}>2,5 \mathrm{~V}$ |
| DC offset voltage | $\pm 10 \mathrm{~V}$ (idle) <br> Resolution $1 \mathrm{mV} \leq 2,5 \mathrm{~V}, 2,5 \mathrm{mV}>2,5 \mathrm{~V}$ |
| Module ations |  |
| Frequency sweep | Internal or external (input: $0-5 \mathrm{~V}$ ), controllable <br> - Adjustment via start/stop frequency and sweep time, linear or logarithmic increments <br> - Sweep individual (trigger: button, external, remotely controlled) or continuous (also with return) |
| Amplitude ramp (sweep) Offset ramp | Internal or external (input: $0-5 \mathrm{~V}$ ), controllable <br> - Adjustment via start/stop amplitude and sweep time, linear increments <br> - Sweep individual (trigger: button, external, remotely controlled) or continuous (also with return) |
| Pulse width module ation | Internal or external (input 0-5V), controllable <br> - With internal control: adjustment via lowest/highest duty cycle and sweep time, linear increments <br> - Sweep individual (trigger: button, external, remotely controlled) or continuous (also with return) <br> - With external control: $0 \mathrm{~V}: 0 \%-5 \mathrm{~V}: 100 \%$ duty cycle, adjustable |
| Frequency and event counter |  |
| Measuring range | $0,1 \mathrm{~Hz}$ to 30 MHz |
| Input voltage | $0,5 \mathrm{~V}_{\text {eff }}$ to $100 \mathrm{~V}_{\text {eff }}$ |
| Event counter | Positive edge, switching threshold 1.6 V Start, stop, pause, reset |


| Connections |  |
| :--- | :--- |
| Outputs (BNC) | Main OUT: Impedance 50』, overvoltage protection, safety cutout <br> TTL OUT: TTL/CMOS level <br> Sync. OUT: TTL/CMOS level |
| Inputs (BNC) | Trigger IN: TTL/CMOS opto-decoupled, overvoltage protection <br> Module ation IN: 0-5 V input level, overvoltage protection <br> Counter IN: $0-100 \mathrm{~V}$ input level, overvoltage protection |

## Smart FG Function Generator

$10 \mathrm{mHz}-20 \mathrm{MHz}$


Eunction generators form a versatile group of equipment useful for applications in low frequency engineering. The wide requency range and many different output functions also allows tests to be carried out on electrica systems with non-sinusoidal voltage forms.

## Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Function generator $3 \mathrm{HU} / 36 \mathrm{HP}$ $\square$ Fits into 3 HU alu-channel |  | Insert panel with function generator <br> $0,2 \mathrm{~Hz} . . .2 \mathrm{MHz}$ <br> The adjustment of the function generator is done by a potentiometer with a scale and rotary switches for six decades. <br> Frequency ranges: $20 / 200 \mathrm{~Hz}, 2 / 20 / 200 \mathrm{kHz}, 2 \mathrm{MHz}$ <br> Wave forms: Sine, Triangle, Square <br> Distortion factor at Sine: < $1,5 \%$ bis 100 kHz , <br> $<5 \%$ bis 2 MHz <br> Output voltage: Uss max. 20 V non load operation typical 10 V at 50 Ohm <br> Output is short-circuit-proofed Attenuator- 20 db at BNC jack DC-Offset switchable 0 to + - 10 V adjustable Sweeping external: Input for module ation VCO $0 . .5 \mathrm{~V}$ for changing frequency $100: 1$ Impedance of input appr. 17 kOhm | 43-1V |
| Power amplifier 3HU / 24HP |  | Eurocassette with power amplifier 40 Watt DC... $150 \mathrm{kHz} / 40$ Vss, adaptable to all Elabo function generators <br> 1x Illuminated rocker switch <br> 1x BNC-Connector socket Input <br> 1× BNC-Connector socket Output <br> Input voltage max. 20 Vss | 43-1T |

## PC-Oscilloscope

Oscilloscopes are easy to use and can be operated completely using the software provided. The user can thus take advantage of all of the advantages of the PC, such as large memory capacity and high-quality display. The Windows use
interface, means that the device can be operated in the same familiar way as standard applications and programmes.

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| 2-Channel PC-Oscilloscope 3HU / 52HP <br> NET |  | Insert panel with PC oscilloscope, including <br> Ethernet interface, manufactured by Metrix <br> Bandwidth: 150 MHz , bandwidth filter for <br> $15 \mathrm{MHz}, 1.5 \mathrm{MHz}$ or 5 kHz <br> 2 channels, Class 1 <br> Vertical: 2.5 mV / div- $100 \mathrm{~V} /$ div <br> up to 250iV / div with Y-expansion <br> Time bases: 35 ranges from $1 \mathrm{~ns} /$ div to $200 \mathrm{~s} / \mathrm{div}$ <br> Horizontal zoom: from $\times 1$ to $\times 100$, sequence <br> 1-2-5 (display of 500 for 10 div) <br> Trigger: Auto; Triggered Single Shot <br> Trigger source: CH1, CH2, EXT, network <br> Type: Slope, Pulse width or Delay (40ns-10.5s), <br> Counting (2-16384 events), TV ( $525=$ NTSC, 625 <br> = PAL/SECAM), Pretrigger adjustable from 0 to $100 \%$, Hold-off (40ns-10.5s) <br> Max. sampling rate: Repeating signals $=$ <br> $100 \mathrm{MS} / \mathrm{s}$, Single Shot $=200 \mathrm{MS} / \mathrm{s}$ <br> Vertical resolution: 10bit (9 used) <br> Memory depth: 50,000pts. (memory capacity depends on the PC used) <br> Afterglow duration: $100 \mathrm{~ms}, 200 \mathrm{~ms}, 500 \mathrm{~ms}$, <br> $1 \mathrm{~s}, 2 \mathrm{~s}, 5 \mathrm{~s}, 10 \mathrm{~s}$ and infinite <br> Acquisition rate: 50 kwaveforms / s / channel <br> Display acquired samples: $19 \mathrm{MS} / \mathrm{s} /$ channel <br> FFT: calculation across 2048pts.), +, , , x, /- <br> Editor for individual measurement functions <br> Manual cursors: (dv, dt), PHASE and free <br> Automat. measurements: 2-19 measurements of <br> 19 + automatic phase, <br> on all curve types, marker and limiter <br> Sampling duration: from 2 s to 31 days <br> Sampling rate: with intervals from $40 \mu \mathrm{~s}$ to <br> 53.57s <br> Extent of analysis: basic speed up to 31st harmonic, in 1 to 2 channels and simultaneous fundamental harmonic oscillation of 40 Hz to 1 kHz <br> Evaluation: continuous display of RMS value \& THD- for selected harmonic: \% F, Phase, Freq., VRMS <br> Optionally available: differential voltage probes | 41-10Z102-EBS 41-102102- <br> Modue |
| 4-Channel Oscilloscope 3HU / 52HP <br> NET | $\ddot{\#} \ddot{\theta} \cdot \ddot{\theta}$ | like Type 41-10 Z102, but 4 channels, Class 1 Trigger source: CH1, CH2, CH3, CH4, EXT, mains | 41-1RZ102-EBS 41-RZ102Modue |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Digital thermometer $3 \mathrm{HU} / 24 \mathrm{HP}$ |  | Insert panel with digital thermometer for Pt100 / Pt1000 <br> 1. Measurement range: <br> $-50,0^{\circ} \mathrm{C}$ bis $+200,0^{\circ} \mathrm{C}$, Resolution $0,1^{\circ} \mathrm{C}$ <br> 2. Measurement range: <br> $-200^{\circ} \mathrm{C}$ bis $+850^{\circ} \mathrm{C}$, Resolution $1^{\circ} \mathrm{C}$ <br> Equipment: <br> 1 Illuminated rocker switch I/O <br> 1 Digital display 4 digits <br> 1 Diodes connector socket 4-pole | 42-1R Z601 |
| Universal Temperature sensor |  | Pt100 immersion temperature sensor, suitable for the 42-1R.3Z601 <br> Temperature range:- $50^{\circ} \mathrm{C}$ to $+400^{\circ} \mathrm{C}$ <br> Length: 150 mm <br> Diameter: 3 mm | 42-15 |
| Temperature sensor |  | Pt100 temperature sensor for gases, suitable for 42-1R. 3 Z601 <br> Temperature range:- $50^{\circ} \mathrm{C}$ to $+400^{\circ} \mathrm{C}$ <br> Length: 100 mm <br> Diameter: 3 mm | 42-1T |
| Temperature sensor |  | Pt100 temperature sensor for surfaces, suitable for 42-1R. 3 Z601 <br> Temperature range:- $50^{\circ} \mathrm{C}$ to $+400^{\circ} \mathrm{C}$ Lenth: 300 mm Diameter: 4 mm | 42-1U |
| PT100-Simulator $3 \mathrm{HU} / 18 \mathrm{HP}$ |  | Insert panel with PT100-Simulator with 23 fixed temperature values and infinitely variable temperature simulation by trimmer. <br> Values in ${ }^{\circ} \mathrm{C}$ : <br> $-100,-50,-30,-20,-10,0,+10,+20,+30$ <br> $+50,+70,+90,+100,+120,+140,+150$, <br> $+170,+190,+200,+250,+300,+400,+600$ <br> variabel-40...+200 (82... 182 Ohm) <br> Accuracy: $\pm 0,05 \%$ <br> Temperature drift: 25ppm/K <br> Load capacity: 0,5W max. <br> Operating temperature: $0 \ldots+50^{\circ} \mathrm{C}$ <br> Humidity 0 ... 95 without dewing <br> Service life: >25000 Switching cycles | 42-2P |

## Continuity Tester

Technical data

| Description |  | Eurocassette with continuity tester and for <br> rough testing of resistances, condensers and <br> coils. | 42 |
| :--- | :--- | :--- | :--- | :--- |
| Continuity tester |  |  |  |
| $3 \mathrm{HU} / 12 \mathrm{HP}$ |  | The e pitch of the generator declines as the <br> resistance value of the test item increases. A <br> change can be reliably detected up to several <br> MOhm. |  |

## Resistance tester

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Digital resistance tester 3HU / 36HP |  | Eurocassette with digital resistance tester for single operation in manufacturing, laboratory and receiving inspection as well asl for operation in automatic test systems. <br> Technical data: <br> Measurement range: 8 Ranges from 200 mOhm... 2 MOhm <br> Display: $41 / 2$-digit LED 7 -segment-display Measuring currents: $100 \mathrm{~mA} \ldots 1 \mu \mathrm{~A}$ Measuring errors: $0,1 \%$ v.M., $+0,005 \%$ v.M./K, +2 digits <br> Fault detection: CURRENT; SENSE; OVERLOAD; POLARITY <br> Temperature reference: $20^{\circ} \mathrm{C}$ <br> 4 Safety lab terminals <br> 1 Illuminated rocker switch | 90-3K |
| Digital resistance tester 3HU / 36HP |  | Eurocassette with digital resistance tester for operation in laboratory, manufacturing and test bay. Tester is equipped with TFT-display. <br> Technical data: <br> Measurement range: 8 Ranges from 200 mOhm... 2 MOhm <br> $-50^{\circ} \mathrm{C} \ldots 200^{\circ} \mathrm{C}$ <br> Measuring currents: $100 \mathrm{~mA} \ldots 1 \mu \mathrm{~A}$ <br> Measuring errors: $\quad+/-0,1 \%$ v.M.., $+0,05 \%$ <br> v.M./K, +2 Digits <br> Measurement clock: max. 3/s <br> Memory: 300 Parameter records <br> Interfaces: CAN/RS232 <br> Connection: 5 connector sockets, 1 diode plug | 92-5K |



46-1R.3Z102

## Highlights

The I/O module is the ideal addition to Elabo network technology
In the compact $3 \mathrm{HU} / 48 \mathrm{HP}$ type, the module can be used in both 3 HU and 6 HU systems
It can be easily integrated even in the Elabo 3 HU profile channel

[^4]
## I/O-Module

For digital and analog signals

Inputs / Outputs
Digital:
8 Analog input DI $1 \ldots 8-24 \mathrm{~V}$ Pege
8 Digital outputs DO 18 floating relay contacts, contact ration
Analog:
1 Analog input AI $0 \ldots 20 \mathrm{~mA}$
1 Analog input Al $0 \ldots 10 \mathrm{~V}$
Analog output AO $0 \ldots 20 \mathrm{~mA}$
1 Analog input AO $0 . . .10 \mathrm{~V}$
All inputs and outputs routed to 4 mm safety lab sockets.

## Function example

When performing a measuring task, voltages can be measured at three different points using a multimeter. In automated form, without an I/O module this task would be possible only if 3 multimeters were used. With the help of the I/O module, the 3 measuring points can be connected to the multimeter one after the othe and the measurements can be automatically recorded.

The Elabo I/O module is integrated directly into the extensive Elabo Elution software package.
Each input/output can be activated/read in either individually or collectively.

Required additional products:
N2-1A Elabo software package Elution® Device
N2-5R Elution® Device driver I/O-Module


# G Electronics 

System 3HU

ELABO
euromicron Gruppe

Insulation resistance measuring devices

High-ohm measuring technology


Why insulation resistance measurement?

Insulation resistance measurement of insulation materials and of electric devices and equipment. nsulation faults can result in leakage current, which can endanger the operator. In particular with devices in protection class II, but also with other protection classes, the test is used to ensure that the measurement results are within the acceptable range. Measurements also play an important role in the performance of repeat ests. The test can also be an important indicator of the quality of the manufacturing process when testing nsulation materials (e.g. in the solar industry).


## Insulation resistance measurement (i)

Measurement of the insulation resistance assesses the actual effective resistance component of the insulation mare frst current used is generally 50 est curr it is applied between active and inactive parts of the test object. Applicable threshold values are usually in the 1 .. $100 \mathrm{M} \Omega$ range

## Variations insulation resistance



| Applications |  |  |
| :---: | :---: | :---: |
| Manual use | - | $\bullet$ |
| Automated use | $\bullet$ | $\bullet$ |
| Operation |  |  |
| Digital display, 3.5 digits | $\bullet$ |  |
| Analog Display | $\bullet$ | $\bullet$ |
| Interface Digital |  | $\bullet$ |
| Start button | $\bullet$ | $\bullet$ |
| Potentiometer to set threshold value | $\bullet$ | $\bullet$ |
| Configurable test voltage (internal) | $\bullet$ |  |
| Configurable measurement range (internal) | $\bullet$ |  |
| Potentiometer to set voltage | $\bullet$ |  |
| Selector for fixed/variable voltage | $\bullet$ |  |


| Interfaces |  |  |
| :---: | :---: | :---: |
| Digital interface | $\bullet$ | $\bullet$ |
| Analog output 0.. 10 VDC (Measured value) | $\bullet$ | $\bullet$ |
| Connections |  |  |
| Socket at front ${ }^{1}$ | $\bullet$ | $\bullet$ |
| Laboratory receptacles at front | $\bullet$ | $\bullet$ |
| Shielding connection at front | - |  |
| Measurement connections at back | - | - |


| Testing parameters | $50 \ldots 550 \mathrm{VDC}$ | 500 VDC |
| :--- | :---: | :---: |
| Test voltage 1 | $500 \ldots 1000 \mathrm{VDC}$ |  |
| Test voltage 2 | $<12 \mathrm{~mA}$ | $<3 \mathrm{~mA}$ |
| Test current | $0 \ldots 10,00 \mathrm{M} \Omega$ | $0 \ldots 10 \mathrm{M} \Omega$ |
| Measurement range 1 | $0 \ldots 100,0 \mathrm{M} \Omega$ | $0 . .100 \mathrm{M} \Omega$ |
| Measurement range 2 | $0 \ldots 1000 \mathrm{M} \Omega$ |  |
| Measurement range 3 | $<3 \%$ v.E. | $<5 \%$ v.E. |
| Measurement error display | $<2 \%$ v.E. | $<2 \%$ v.E. |
| Measurement error analog output |  |  |


| Principal technical data |  |  |
| :--- | :---: | :---: |
| Mains connection | $230 \mathrm{~V} \pm 10 \%$ |  |
| Mains frequency | $49 \ldots 61 \mathrm{~Hz}$ |  |
| Dimensions | $3 \mathrm{HV} / 36 \mathrm{HP}$ |  |
| Weight | $2,8 \mathrm{~kg}$ |  |
| Allowable humidity |  | $1,3 \mathrm{~kg}$ |
| Working temperature | $25 . .75 \%$ rel. |  |

Insulation resistance measuring devices 90-4K 50... 1000 VDC


Front view $90-4 \mathrm{~K}$


Rear view 90-4K

Highlights
Test voltage 1:
Test voltage 2:
Measurement range:
Test current:
Measurement error display:
Measurement error analog outp

## Mains supply:

Interface:
Dimensions:
Weight:
Allowable humidity:
Working temperature:

## Optional

90-4K Z10
90-4K Z11
90-4K Z12
90-4K E99

## 50... 550 VDC

500... 1000 VDC
0...10/100/1000 M $\Omega$
(internally configurable measurement range $1+2$ oder $2+3$ )
$<12 \mathrm{~mA}$
$<3 \%$ v.E.
$230 \mathrm{~V}+\mathrm{l}-10 \% ; 49 \ldots 61 \mathrm{~Hz}$
Digital / Analog outpu
$3 \mathrm{HU} / 36 \mathrm{HP}$
$2,8 \mathrm{~kg}$
25 ... $75 \%$ rel.
$10 \ldots 50^{\circ} \mathrm{C}$

Recommended additional products
N2-1A
Ethernet instead of digital / analog
RS232C instead of digital / analog
USB instead of digital / analog
Delivery with Elabo works calibration protocol

Insulation resistance measuring devices 90-4K 50... 1000 VDC

Technical data

| Applications |  |
| :---: | :---: |
| Manual use | $\bullet$ |
| Automated use | - |
| Operation |  |
| Digital display, 3.5 digits | $\bullet$ |
| Interface Digital | $\bullet$ |
| Start button | - |
| Potentiometer to set threshold value | - |
| Configurable test voltage (internal) | - |
| Configurable measurement range (internal) | - |
| Potentiometer to set voltage | - |
| Selector for fixed/variable voltage | - |
| Interfaces |  |
| Digital interface | - |
| Analog output 0 .. 10 VDC (measured value) | - |
| Connections |  |
| Socket at front ${ }^{1}$ | - |
| Laboratory receptacles at front | $\bullet$ |
| Shielding connection at front | - |
| Measurement connections at back | - |
| ${ }^{1}$ Schuko socket, other country-specific installation sockets available on request. |  |

Insulation resistance measuring devices 90-2E 500 VDC

Front view 90-2E



Rear view 90-2E

Insulation resistance measuring devices 90-2E

500 VDC

| Applications |  |
| :---: | :---: |
| Manual use | - |
| Automated use | $\bullet$ |
| Operation |  |
| AnalogDisplay | - |
| Interface Digital | - |
| Start button | - |
| Potentiometer to set threshold value | - |
| Interfaces |  |
| Digital interface | - |
| Analog output 0 .. 10 VDC (measured value) | $\bullet$ |
| Connections |  |
| Socket at front ${ }^{1}$ | - |
| Laboratory receptacles at front | - |
| Measurement connections at back | - |
| ${ }^{1}$ Schuko socket, other country-specific instal |  |

## Technical data

Highlights

| Test voltage: | 500 VDC |
| :---: | :---: |
| Measurement range: | 0...10 / $100 \mathrm{M} \Omega$ |
| Test current: | $<3 \mathrm{~mA}$ |
| Measurement error display: | < 5 \% v.E. |
| Measurement error analog output: $2 \%$ v.E. |  |
| Mains supply: | $230 \mathrm{~V}+\mathrm{-} 10 \%$; 49 ... 61 Hz |
| Interface: | Digital / Analog output |
| Dimensions: | 3HU / 36HP |
| Weight: | $1,3 \mathrm{~kg}$ |
| Allowable humidity: | $25 . . .75 \%$ rel. |
| Working temperature: | $10 \ldots 50^{\circ} \mathrm{C}$ |
| Optional |  |
| 90-2E Z10 | Ethernet instead of digital / analog |
| 90-2E Z11 | RS232C instead of digital / analog |
| 90-2E Z12 | USB instead of digital / analog |
| 90-2E E99 | Delivery with Elabo works calibration protocol |
| Recommended additional products |  |
| N2-1A | Elabo software package Elution ${ }^{\oplus}$ Device |
| N2-7G | Elution ${ }^{\text {® }}$ Device driver Single test devices |

[^5]Sample configurations

Requirement:
Portable insulation resistance testing device for use at a test station or as a mobile unit
This example shows a typical configuration for this application.

| Description | Quantity | Ordering no. |
| :--- | :---: | :--- |
| Insulation resistance measuring device 50 ... 1000 VDC | 1 | $90-4 \mathrm{~K}$ |
| Housing | 1 | $30-6 \mathrm{M}$ |
| Calibration | 1 | $90-4 \mathrm{~K}$ E99 |



## PE conductor resistance measuring devices

## Requirement:

Test system for PE conductor and insulation resistance measurement in a practical portable housing. This unit is also available in a model with combined measurement function. You can find additional useful components such as test sensors and extra blank panels in our accessories program.

| Description | Quantity | Ordering no. |
| :--- | :---: | :--- |
| Insulation resistance measuring device | 1 | $90-4 \mathrm{~K}$ |
| Blank panel | 1 | $40-1 \mathrm{~A}$ |
| PE conductor testing device $10 \mathrm{VAC} / 10 \ldots 25 \mathrm{~A}$ | 1 | $90-4 \mathrm{~F}$ |
| Housing | 1 | $30-6 \mathrm{~N}$ |
| Calibration | 1 | $90-4 \mathrm{~K}$ E99 |
| Calibration | 1 | $90-4 \mathrm{~F}$ E99 |

## Requirement:

PE conductor testing device for use in automated systems. A 19" module rack allows the installation of a switching cabinet. You can find additional useful components such as test sensors and extra blank panels in our


## PE conductor resistance measuring devices

Robust building blocks with a high degree of availability

Whether as an individual workstation solution or as a component in a partially or fully automated testing system, in the workshop, the laboratory or in mass production - Elabo testing devices stand out because of their broad, flexible range of applications. Right from the start, the basic models of testing devices are adapted to their respective applications. Using appropriate accessories, they can also be customized at a later date to modified or expanded requirements, such as ongoing automation

Elabo - long-term reliable solutions in all cases
Why PE conductor resistance measurement testing?
PE conductor resistance measurement of devices in protection class 1 is one of the most important tests for household, medical and consumer devices as well as in the field of general mechanical engineering and plant engineering and construction. Verification of the efficacy of the protective earth connection between the mains connection and every exposed conductive (generally metal) housing part represents "life insurance" for users of electrical equipment. Only if this connection is $100 \%$ guaranteed for the long term the upstream safety element can safely disconnect the device from the power supply in the event of a short circuit to the housing, for instance. Inherent grounding of housing parts also prevents the creation of a dangerous voltage potential between the housing and the ground where the operator stands.


Measurement of PE conductor
(i) resistance

The principle of measuring PE conductor resistance in products in protection class 1 is simple to understand. A current is directed from a PELV current source (usually 6 or 12 VAC no-load voltage) from the PE connection to all exposed metal parts. The resistance is determined from the voltage drop and the flowing current. Typical threshold values are between 100 and 200 mW . However, other threshold values are also used depending on the product o be tested. Because of the low test voltage, no additional safety measure are necessary in the PE test.


Variants of PE conductor resistance measuring devices


| Testing parameters |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Test voltage | 12 VAC | 12 VAC | 12 VAC | 10 VAC | 6 VAC | 6 VAC |
| Test current programmable |  |  |  | $10 . .25 \mathrm{~A}$ | 25 A | 12 A |
| Test current adjustable | $10 . .25 \mathrm{~A}$ | $10 . .30 \mathrm{~A}$ | $10 . .50 \mathrm{~A}$ |  |  |  |
| Measurement range | $0 . .300 \mathrm{~m} \Omega$ | $0 . .300 \mathrm{~m} \Omega$ | $0 . .200 \mathrm{~m} \Omega$ | $0 . .350 \mathrm{~m} \Omega$ | $0 . .200 \mathrm{~m} \Omega$ | 0 .. $3,5 \mathrm{~V}$ |
| Measurement error display | < $5 \%$ v.E. |  |  | $1,5 \%$ v.E. / $\pm 2$ digits |  |  |
| Measurement error analog output | <2\% v.E. |  |  | $1,5 \%$ v.E. / $\pm 2$ digits |  |  |


| Principal technical data |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mains connection | $230 \mathrm{~V} \pm 10 \%$ |  | $230 \mathrm{~V}+10 /-5 \%$ | $230 \mathrm{~V}+10 /-5 \%$ |  |  |
| Mains frequency | $49 . .61 \mathrm{~Hz}$ |  |  |  |  |  |
| Dimensions | 3HU / 36HP | $3 \mathrm{HU} / 42 \mathrm{HP}$ | $19^{\prime \prime} / 4 \mathrm{HU}$ | 3HU/36HP | 3HU / 36HP | $3 \mathrm{HU} / 36 \mathrm{HP}$ |
| Weight | 6 kg | 7 kg | 30 kg | 6 kg | 6 kg | 6 kg |
| Allowable humidity | $25 . .75 \%$ rel. |  |  |  |  |  |
| Working temperature | $10 . .50^{\circ} \mathrm{C}$ |  |  |  |  |  |
| Test time |  |  | 1 s .. 99 min |  |  |  |

PE conductor resistance measuring devices 90-2A / 90-2B 12 VAC


Highlights

| Test voltage: | 12 VAC |
| :--- | :--- |
| Measurement range: | $0 \ldots 300 \mathrm{~m} \Omega$ |
| Test current 90-2A: | $10 \ldots 25 \mathrm{~A}$ |
| Test current $90-2 \mathrm{~B}:$ | $10 \ldots 30 \mathrm{~A}$ |
| Measurement error display: $\quad<5 \% \mathrm{~V} . \mathrm{E}$. |  |
| Measurement error analog output: $<2 \% \mathrm{~V} . \mathrm{E}$. |  |
| Mains supply: | $230 \mathrm{~V}+/-10 \% ; 49 \ldots 61 \mathrm{~Hz}$ |
| Interface: | Digital / Analog output |
| Allowable humidity: | $25 \ldots 75 \%$ rel. |
| Working temperature: | $10 \ldots 50^{\circ} \mathrm{C}$ |

PE conductor resistance measuring devices 90-2A / 90-2B 12 VAC

## Technical data

| Device | 90-2A | 90-2B |
| :---: | :---: | :---: |
| Applications |  |  |
| Manual use | - | - |
| Automated use | - | - |
| Operation |  |  |
| Analog display, selectable | - R/I | - R/I |
| Interface | - | - |
| Start button | - | - |
| Reset button | - | - |
| Setting unit to set test current | - | - |
| Potentiometer to set threshold value | - | - |
| Interfaces |  |  |
| Digital interface | - | - |
| Analog output 0 .. 10 VDC (measured value) | - | - |
| Connections |  |  |
| Test sensor at front | - | - |
| Socket at front ${ }^{1}$ | - | - |
| Laboratory receptacles at front | - | - |
| Measurement connections at back | - | - |
| Principal technical data |  |  |
| Dimensions | $3 \mathrm{HU} / 36 \mathrm{HP}$ | $3 \mathrm{HU} / 42 \mathrm{HP}$ |
| Weight | 6 kg | 7 kg |
|  |  |  |

Optional
90-2A Z10 / 90-2B Z10 Ethernet instead of digital / analog
90-2A Z11 / 90-2B Z11 RS232C instead of digital / analog
90-2A Z12 / 90-2B Z12 USB instead of digital / analog
90-2A E99 / 90-2B E99 Delivery with Elabo works calibration protocol

## Recommended additional products

N2-1A
Elabo software package Elution ${ }^{\oplus}$ Device
N2-7G
Elution ${ }^{\oplus}$ Device driver single test devices
${ }^{1}$ Schuko socket, other country-specific installation sockets available on request.

PE conductor resistance measuring devices 90-4F / 90-4G / 90-4E


Front view 90-4F


Front view 90-4G


Rear view 90-4E, 90-4F, 90-4G
Highlights


[^6]Optional
90-4F E10/90-4G E10/90-4E E10
90-4F E11/90-4G E11/90-4E E11
$90-4 F$ E12/90-4G E12/90-4E E12
90-4F E99/90-4G E99/90-4E E99
Ethernet instead of digital / analog
RS232C instead of digital / analog
USB instead of digital / analog
Delivery with Elabo works calibration protocol

PE conductor resistance measuring devices 90-4F / 90-4G / 90-4E
10 VAC / 6 VAC

## Technical data

| Device | 90-4F <br> Universal | $90-4 \mathrm{G}$ <br> Medical technology | 90-4E <br> Voltages (drop) tester |
| :---: | :---: | :---: | :---: |
| Applications |  |  |  |
| Manual use | $\bullet$ | $\bullet$ | $\bullet$ |
| Automated use | - | $\bullet$ | $\bullet$ |
| Operation |  |  |  |
| Digital display, 3.5 digits selectable | -R/I | - R/I | - U/। |
| Interface | - | - | $\bullet$ |
| Start button | - | - | - |
| Potentiometer to set test current | - |  |  |
| Potentiometer to set threshold value | - | - | - |
| Interfaces |  |  |  |
| Digital interface | - | - | - |
| Analog output 0.. 10 VDC (measured value) | - | - | - |
| Connections |  |  |  |
| Test sensor at front | - | - | $\bullet$ |
| Socket at front ${ }^{1}$ | $\bullet$ | - | $\bullet$ |
| Laboratory receptacles at front | - | - | $\bullet$ |
| Measurement connections at back | - | - | - |
| Schuko socket other country-specific instal | able on |  |  |

Recommended additional products

| N2-1A | Elabo software package Elution ${ }^{\oplus}$ Device |
| :--- | :--- |
| N2-7G | Elution ${ }^{\oplus}$ Device driver Single test devices |

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## Sample configurations

Superior performance in practical applications

Requirement:
Portable PE conductor testing device for use at a test station or as a mobile unit. This example shows a typical
configuration for this application.


## Pneumatics

## Requirement:

PE conductor testing device for use in automated systems. A 19"-module rack allows the installation of a switching cabinet You can find additional useful components such as test sensors and extra blank panels in our accessories program.

| Description | Quantity | Ordering no. |
| :--- | :---: | :--- |
| PE conductor testing device 25 A | 1 | $90-4 \mathrm{G}$ |
| Module rack with 24-pole system plug | 1 | $94-1 \mathrm{R}$ |
| Blank panel 12HP | 1 | $40-1 \mathrm{~A}$ |
| Blank panel 36HP | 1 | $40-1 \mathrm{D}$ |
| Calibration | 1 | $90-4 \mathrm{G}$ E99 |



Requirement:
Test system for combined PE conductor and insulation resistance measurement in a practical portable housing. This unit is also available in a model with separate measurement functions. You can find additional useful components such as test sensors and extra blank panels in our accessories program.

| Description | Quantity | Ordering no. |
| :--- | :---: | :--- |
| PE conductor testing device 12 VAC $10 \ldots 25 \mathrm{~A}$ | 1 | $90-2 \mathrm{~A}$ |
| Insulation resistance measuring device $500 \mathrm{VDC} ; 10 / 100 \mathrm{M} \Omega$ | 1 | $90-2 \mathrm{E}$ |
| Housing (combined measurement) | 1 | $30-6 R$ |
| Test sensor | 1 | $94-4 \mathrm{~S}$ |
| Calibration | 1 | $90-2 \mathrm{~A}$ E99 |
| Calibration | 1 | $90-2 \mathrm{E}$ E99 |



## Pneumatic supply

All insert panels can be supplied for different pressure ranges if required. Special designs can also be supplied for individual solutions: Special couplings, pressure reducing regulators, filters and controllers as requested

## Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Compressed air supply 3HU / 6HP |  | Insert panel with <br> 1 Quick coupling NW 5 1/8 <br> 1 Quick connectors NW 5 plastic hose 6/4 | 48-1 K |
| Compressed air supply 3HU / 36HP |  | Insert panel with <br> 1 Pressure regulator 0,5... 10 bar, 1 Pressure gauge 0... 10 bar <br> 2 Quick coupling NW2,5 for input pressure and adjustable pressure <br> 1 Quick connectors | 48-1G |
| Compressed air supply 3HU / 36HP |  | Insert panel with compressed air supply <br> 1 reducing valve of high precision to which the external supplied pressure is connected to <br> $13 / 2$-valve for directing the pressure to the output couplings or to disconnect the pressure <br> 2 leakfree one- hand quick- acting couplings NW2,5 <br> 1 Quick connectors NW 2,5 <br> Pressure range <br> 0 ... 4 bar <br> 0 ... 10 bar | $\begin{aligned} & \text { 48-1D Z01 } \\ & \text { 48-1D Z02 } \end{aligned}$ |

## Pneumatic Accessories

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Connector hose 6/4 mm |  | single Quick connectors NW5 10 bar 500 mm single Quick connectors NW5 10 bar 1000 mm <br> single Quick connectors NW5 10 bar 2000 mm <br> single Quick connectors NW2,5 10 bar 500 mm <br> single Quick connectors NW2,5 10 bar 1000 mm <br> single Quick connectors NW2,5 10 bar 2000 mm | $\begin{aligned} & 48-5 A \\ & 48-5 B \\ & 48-5 C \\ & 48-5 P \\ & 48-5 Q \\ & 48-5 R \end{aligned}$ |
| Manometer connectors |  | $\begin{aligned} & \text { R } 1 / 8^{\prime \prime} \\ & \text { R } 1 / 4^{\prime \prime} \\ & \text { R } 3 / 8^{\prime \prime} \\ & \text { R } 1 / 2^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 48-5 \mathrm{H} \\ & 48-5 \mathrm{~J} \\ & 48-5 \mathrm{~K} \\ & 48-5 \mathrm{~L} \end{aligned}$ |
| High pressure hose DN4 |  | Minimess-Connections 400 bar 630 mm Minimess-Connections 400 bar 1000 mm | $\begin{aligned} & \text { 48-5D } \\ & 48-5 E \end{aligned}$ |
| Quick connectors for single-handed rapid-action connectors | * \& | NW5 for coupling hose $6 / 4 \mathrm{~mm}$ NW2,5 for coupling hose $6 / 4 \mathrm{~mm}$ | $\begin{aligned} & 48-5 \mathrm{M} \\ & 48-5 \mathrm{~N} \end{aligned}$ |
| 10 bar air supply for bench rack plug-in module s |  | Coupling type 3 take off points Coupling type 5 take off points | $\begin{aligned} & 48-5 S Z \\ & 48-5 \mathrm{TZ} \end{aligned}$ |

Cable will be laid in the back side of bench rack
= Please specify associated bench rack

## G Electronics

System 3HU

ELABO
euromicron Gruppe

Decades \& logades

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Load resistors 3HU / 36HP |  | Eurocassette with <br> 3 adjustable load resistors, each capable of <br> bearing loads of 50 W <br> Resistance values: <br> 0... $100 \mathrm{Ohm} / 50 \mathrm{~W}$ <br> 0... $1 \mathrm{kOhm} / 50 \mathrm{~W}$ <br> $0 . . .10 \mathrm{kOhm} / 50 \mathrm{~W}$ <br> 3 Fine wire fuses <br> 9 Safety lab terminals | 42-2N |
| C decade $3 \mathrm{HU} / 24 \mathrm{HP}$ $\square$ <br> Fits into 3HU alu-channel |  | Insert panel with C decade 100pF...9.9999 F , adjustable in 100 pF increments via 5 preselection switches with large numbers in their display windows <br> Tolerance: <br> 100 pF... 1000 pF: $\pm 10 \%$ type $\pm 13 \%$ max. <br> 100 pF... 9,9 nF: $\pm 5 \%$ type $\pm 8 \%$ max. <br> $10 \mathrm{nF} . .99,9 \mathrm{nF}: \pm 3 \%$ type $\pm 5 \%$ max. <br> $1 \mu \mathrm{~F} . .9,99 \mu \mathrm{~F}: \pm 2 \%$ type $\pm 5 \%$ max. <br> Permissible operating voltage: 50 V DC | 42-2G |
| Inductivity logade 3HU / 18HP |  | Insert panel with inductivity logade $1 . . .4700 \mu \mathrm{H}$ <br> Preselection: 23 values graded acc. to row E6, adjustable by rotary switch <br> Imprecision: $\quad 1 . .33 \mu \mathrm{H}, \pm 10 \%$ <br> $47 . .4700 \mu \mathrm{H}, \pm 5 \%$ <br> Operating voltage: maximum 100 V DC <br> Operating current: maximum 63 mA , <br> secured with fine wire fuse <br> 2 Safety lab terminals | 42-2R |
|  |  | Insert panel with R decade <br> 10hm...999.999kOhm, adjustable in 10 hm increments via 6 preselection switches with large numbers in their display windows Tolerance: <br> 1 Ohm... 9 Ohm $<10 \%+0,9$ Ohm 10 Ohm.... 99 Ohm <2 \% + 0,9 Ohm > 1000 Ohm $<1 \%+0,9 \mathrm{Ohm}$ Load: maximum 1 W <br> Connection voltage: maximum 250 V AC maximum 50 V DC | 42-2F |

## Interfaces

Technical data

| Description |  |  |  | Order no. |
| :---: | :---: | :---: | :---: | :---: |
| LPT-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ $\square$ |  | 1 | SUB-D 25-pole female with ca. 3 m connection cable and mating connector | 46-7A |
| COM-Interface / RS232 <br> 3HU/6HP |  | 1 | SUB-D 25-pole male <br> SUB-D 9-pole male <br> both with ca. 3 m connection cable and mating connector | $\begin{aligned} & 46-7 B \\ & 46-7 C \end{aligned}$ |
| VGA-Interface 3HU / 6HP | \| 1 | | 1 | SUB-D HD 15-pole female with ca. 3 m connection cable and mating connector | 46-7D |
| DVI-I-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ |  | 1 | DVII female <br> with ca. 3 m connection cable and mating connector | 46-7E |
| S-VHS-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ |  | 1 | PS / 2 Mini-DIN, 4-pole female with ca. 2 m connection cable and mating connector | 46-7M |
| USB-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ $\square$ |  | 2 | USB, Type A, female with ca. 3 m connection cable and mating connector | 46-7F |
|  |  | 2 | PS / 2 Mini-DIN, 6-pole female with ca. 3 m connection cable and mating connector | 46-7G |
| Audio-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ |  | 2 | Audio, Cinch, red and white, female with ca. $2,5 \mathrm{~m}$ connection cable and mating connector | 46-7H |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Audio-Interface <br> 3HU / 6HP <br> Fits into 3HU alu-channel |  | 1 stereo jack socket 3.5 mm , stereo with ca. 3 m connection cable and mating connector | 46-7J |
| FireWire-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ |  | 1 IEEE-1394, 6-pole with ca. 3 m connection cable and mating connector | 46-7K |
| RJ-45-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ |  | 1 RJ-45-connector socket 8-pole Cat6 pluggable on both sides with ca. 3 m patch cable <br> 2 RJ-45-connector socket 8-pole Cat6 pluggable on both sides with ca. 3 m patch cable | $46-7 \mathrm{~L}$ 46-7L Z002 |
| Data socket RJ-45 <br> $3 \mathrm{HU} / 18 \mathrm{HP}$ |  | Insert panel with <br> 1 double socket RJ45 Cat. 6 shielded non-wired | 44-2D |
| Hollow wall socket $3 \mathrm{HU} / 18 \mathrm{HP}$ |  | Insert panel with <br> 1 hollow wall socket for installation of an antenna, mains or telephone socket | 40-1B Z004 |
| Antenna socket $3 \mathrm{HU} / 18 \mathrm{HP}$ | $0$ | Insert panel with <br> 1 antenna socket for radio, TV, SAT | 44-2E |
| IEEE 488-Interface 3HU / 6HP |  | IEEE-488 centronics 24 -pin female with approx. 3 m connection cable and mating connector | 46-7N |
| Supply strip 3HU / 6HP |  | Insert panel with power supply with <br> 2 BNC installation jack sockets 50 Ohm can be pluggable on both sides unwired | 46-7P |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| ASi-Interface 3HU / 6HP <br> its into 3HU |  | Insert panel interface panel ASi with 4 laboratory safety sockets 4 mm yellow non-wired | 46-70 |
| PROFI NET-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ |  | Insert panel PROFI NET interface panel with 2 RJ45 connector, 8-pin, pluggable on both sides with approx. 3 m patch cable | 46-7R |
| PROFI BUS-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ |  | Insert panel PROFI BUS interface panel with <br> 1 Sub-D adapter 9-pin, male, with mating connector female un-wired | 46-75 |
| HDMI-Interface $3 \mathrm{HU} / 6 \mathrm{HP}$ |  | Insert panel with <br> 1 HDMI 1.3 feed-through with 19-pin HDMI connector on both sides | 46-7T |
| Multiple interface panel 3HU / 24HP |  | Insert panel with <br> 2 USB connectors, type A female <br> 2 PS/2 Mini-DIN 6-pin connectors, female <br> 1 Sub-D connector 9-pin male <br> 1 Sub-D connector 15-pin HD female each with approx. 2 m connection cable and mating connector <br> 2 jack sockets, 3.5 mm stereo with approx. 3 m connection cable and mating connector <br> 1 RJ45 connector, 8-pin, pluggable on both sides | 46-7V |
| Insert panel $3 \mathrm{HU} / 18 \mathrm{HP}$ <br> its into 3HU alu-channe | $\begin{gathered} 0 \\ 0 \\ \bullet \\ \bullet \\ \bullet 0 \\ \bullet \\ -0 \\ -0 \end{gathered}$ | Insert panel with selective poles for interconnecting test stations <br> 9 not wired up safety lab terminals 16 A <br> 2 not wired up BNC-jacks Z $=50$ Ohm | 46-1D |

## Soldering station

Insert panel soldering station

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Soldering station 3HU/36HP $\square$ |  | Insert panel with temperature-controlled soldering station, temperature in the range $150 . . .400^{\circ} \mathrm{C}$ <br> continuously adjustable by means of a rotary potentiometer analogue control technology ideal for lead-free soldering, RoHS-compliant <br> 1 soldering iron basis tool 810 CDJ <br> 1 soldering tip 0832 CD <br> 1 stand 0A 41 | 46-1F |
| Soldering station $3 \mathrm{HU} / 36 \mathrm{HP}$ |  | Insert panel with temperature-controlled soldering station, model Weller WS 81 <br> Temperature in the range $150 \ldots 400^{\circ} \mathrm{C}$ continuously adjustable by means of a rotary potentiometer analogue control electronics with automatic tool recognition up to 80 W ideal for lead-free soldering, RoHS-compliant the soldering tip is floating at the time of shipment <br> 1 soldering iron WSP 80 <br> 1 soldering tip LT B 1 <br> 1 safety compartment WPH 80 | 46-1G |

Cassettes soldering and unsoldering stations

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Soldering station 3HU / 18HP |  | Eurocassette with temperature-controlled 80 W soldering station, temperature in the range $150 . . .400^{\circ} \mathrm{C}$ continuously adjustable and electronically controlled, ideal for lead-free soldering, RoHS-compliant. <br> 1 Soldering iron <br> 1 LED for regular visual inspection <br> 1 Stand <br> 1 Illuminated rocker switch | 46-1A |
| Soldering station 3HU / 18HP |  | Eurocassette with temperature-controlled, floating 80 W soldering station, temperature continuously adjustable up to $450^{\circ} \mathrm{C}$, manufactured by Weller, ideal for lead-free soldering, RoHS-compliant. <br> 1 Soldering iron <br> 1 LED for regular visual inspection <br> 1 Stand <br> 1 Illuminated rocker switch | 46-1H |
| Soldering station 3HU / 24HP |  | Eurocassette with temperature-controlled, antistatic 80 W soldering station, temperature continuously adjustable up to $450^{\circ} \mathrm{C}$, manufactured by Weller, ideal for lead-free soldering, RoHS-compliant. <br> 1 Digital display <br> 1 Antistatic soldering iron <br> 1 Stand <br> 1 Illuminated rocker switch | 46-1K |
| Soldering and unsoldering station $3 \mathrm{HU} / 36 \mathrm{HP}$ |  | Eurocassette with electronic soldering and unsoldering station for industrial application and for repair stations, temperature continuously adjustable between $150 \ldots . .400^{\circ} \mathrm{C}$, ideal for leadfree soldering, RoHS-compliant. <br> 2 Digital temperature displays <br> 1 Installed vacuum/compressed air unit; this results in the station being independent of compressed air supplies <br> 1 Soldering iron 80W 840 CDJ <br> 1 Unsoldering iron 80W 720 ENJ <br> 2 Connection jack socket for soldering/desoldering irons <br> 1 Potential equalisation connector <br> 2 Quick-release couplings for vacuum and compressed air <br> 2 Stand <br> 2 Illuminated rocker switch | 46-1M Z601 |

## G Electronics

System 3HU

ELABO
euromicron Gruppe

Housing and accessories

Blank plate, empty eurocassette


## Blank panels:

Blank plates in the system eurocassettes fill remaining space in the desktop rack. They are comprised of 3 mm thick hard aluminum with an epoxy resin powder coating, colour: light grey
Undetachable Philips head screws are mounted above and below for fastening in the subrack or in the housing.

The height of all of the plates is $128.5 \mathrm{~mm}=3 \mathrm{HU}$.
Empty eurocassettes, open version:
The eurocassettes are shipped without lateral and upper or lower covers
The front plates correspond in their design to the blank plates. The depth profiles are comprised of an extruded aluminum strand profile. The rear wall is made of 2 mm aluminum and provided with a punch-out for male multipoint connectors in accordance with DIN 41612 . Empty eurocassettes are alw
multipoint connector with high-current contacts and a pair of guide rails.

Height: $128.5 \mathrm{~mm}=3 \mathrm{HU}$
Depth: 196 mm

## Empty eurocassettes, closed version:

Version as above, but with closed sides, upper and lower covering.
The upper or lower cover is perforated.
Height: $128.5 \mathrm{~mm}=3 \mathrm{HU}$
Depth: 196 mm

Blank plate, empty eurocassette

Blank plates are comprised of 3 mm thick hard aluminum powder-Coated in light grey on both sides (similar to RAL
7035 ). Special undetachable Philips screws are mounted for fastening purposes which can also be used for dismantling purposes. An earthing bolt size M 5 is welded to the rear side of the blank plate. Uniform front plate height $3 \mathrm{HU}=128.5 \mathrm{~mm}$
$20,3 \mathrm{~mm}$ wide
40.1 H

| $3 \mathrm{HU} / 4 \mathrm{HP}$ | $20,3 \mathrm{~mm}$ wide | $40-1 \mathrm{H}$ |
| :--- | :--- | :--- |
| $3 \mathrm{HU} / 6 \mathrm{HP}$ | $30,4 \mathrm{~mm}$ wide | $40-1 \mathrm{G}$ |
| $3 \mathrm{HU} / 8 \mathrm{HP}$ | $40,3 \mathrm{~mm}$ wide | $40-1 \mathrm{~J}$ |
| $3 \mathrm{HU} / 2 \mathrm{HP}$ | 6019 mm wide | $40-1 \mathrm{~A}$ |
| $3 \mathrm{HU} / 18 \mathrm{HP}$ | 914 mm wide | $40-1 \mathrm{~B}$ |
| $3 \mathrm{HU} / 24 \mathrm{HP}$ | $121,9 \mathrm{~mm}$ wide | $40-1 \mathrm{C}$ |
| $3 \mathrm{HU} / 36 \mathrm{HP}$ | $182,9 \mathrm{~mm}$ wide | $40-1 \mathrm{D}$ |
| $3 \mathrm{HU} / 2 \mathrm{HP}$ | $213,3 \mathrm{~mm}$ wide | $40-1 \mathrm{E}$ |
| $3 \mathrm{HU} / 48 \mathrm{HP}$ | $243,8 \mathrm{~mm}$ wide | $40-1 \mathrm{~F}$ |
| $3 \mathrm{HU} / 60 \mathrm{HP}$ | $304,8 \mathrm{~mm}$ wide | $40-1 \mathrm{~K}$ |
| $3 \mathrm{HU} / 96 \mathrm{HP}$ | $487,6 \mathrm{~mm}$ wide | $40-1 \mathrm{~L}$ |



## $3 \mathrm{HU} / 12 \mathrm{HP}$ $3 \mathrm{HU} / 8 \mathrm{HP}$ <br> $3 \mathrm{HU} / 24 \mathrm{HP}$ <br> $2 \mathrm{HU} / 36 \mathrm{HP}$

$3 \mathrm{HU} / 48 \mathrm{HP}$

Empty eurocassettes, closed version
Closed empty eurocassettes are equipped with a closed aluminum side wall profile. The upper and lower covering is provided by a perforated aluminum
sheet which is supported in removable fashion in the side wall profile.

| $60,9 \mathrm{~mm}$ wide | $40-3 \mathrm{~A}$ |
| :---: | :---: |
| $91,4 \mathrm{~mm}$ wide | $40-3 \mathrm{~B}$ |
| $121,9 \mathrm{~mm}$ wide | $40-3 \mathrm{C}$ |
| $182,9 \mathrm{~mm}$ wide | $40-3 \mathrm{D}$ |
| $213,3 \mathrm{~mm}$ wide | $40-3 \mathrm{E}$ |
| 2438 m |  |

$121,9 \mathrm{~mm}$ wide
$213,3 \mathrm{~mm}$ wide
$243,8 \mathrm{~mm}$ wide
$\qquad$ inum
in the
wall protile.

| $20-3 \mathrm{~F}$ |
| :--- |

Empty eurocassettes, open version
In addition to the front plate, empty eurocassettes contain an additional 4 depth profiles comprised o an extruded aluminum stand profile, a 2 mm thick aluminum rear wall with punch-out for one male
Empty eurocassettes are shipped with 11-pin male and female multipoint connector and a pair of guide rails. Eurocassette depth is a uniform 196 mm .
$60,9 \mathrm{~mm}$ wide $40-2$

| $91,4 \mathrm{~mm}$ wide | $40-2 \mathrm{~B}$ |
| :--- | :--- |
| $121,9 \mathrm{~mm}$ wide | $40-2 \mathrm{C}$ |
| $182,9 \mathrm{~mm}$ wide | $40-2 \mathrm{D}$ |
| $213,3 \mathrm{~mm}$ wide | $40-2 \mathrm{E}$ |

$40-2 \mathrm{~F}$
$243,3 \mathrm{~mm}$ wide

## Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Support housing |  | Aluminum housing 3 HU <br> 1 connection cable, 1 -phase, with Schuko plug <br> Colour: light grey <br> with Space für 24 HP <br> $W=170 \mathrm{~mm}, \mathrm{D}=285 \mathrm{~mm}, \mathrm{H}=150 \mathrm{~mm}$ <br> with space for 36 HP <br> $W=230 \mathrm{~mm}, \mathrm{D}=285 \mathrm{~mm}, \mathrm{H}=150 \mathrm{~mm}$ | 30-6L <br> 30-6M |
| Support housing |  | Aluminum housing 3 HU <br> 1 connection cable, 1 -phase, with Schuko plug Colour: light grey <br> with space for 42HP <br> $W=260 \mathrm{~mm}, \mathrm{D}=285 \mathrm{~mm}, \mathrm{H}=150 \mathrm{~mm}$ <br> like 30-6P <br> but with 1x RJ45, 1x USB Type B Interface in the back <br> with space for 84 HP <br> $W=475 \mathrm{~mm}, \mathrm{D}=285 \mathrm{~mm}, \mathrm{H}=150 \mathrm{~mm}$ <br> with space for 84 HP , with wiring for PE and IS testing equipment <br> $W=475 \mathrm{~mm}, \mathrm{D}=285 \mathrm{~mm}, \mathrm{H}=150 \mathrm{~mm}$ | 30-6P <br> 30-6P Z002 <br> $30-6 \mathrm{~N}$ <br> 30-6R |



The aluminum shell housing enables the mobile utilisation of Elabo 3 HU eurocassettes. Aluminum traverse profiles are mounted inside with M 2.5 threads at the front and the rear in 5.08 mm separation grids in accordance with DIN 41494. A female multipoint connector with 11 high-current contacts serves as the insert mating connector

The 3 HU housing can be loaded in the specified horizontal pitches ( $1 \mathrm{HP}=5.08 \mathrm{~mm}$ ) with eurocassettes. The version is completely wired with 4 housing feet, carrying grip and 2.5 m of connection cable with with Schuko plug

## Accessories for cassettes and subracks

## Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Spacer bolt |  | Spacer bolt for eurocassettes with a depth of 160 mm . <br> The bolt fits the female multipoint connector in the Subrack. | 39-1 A |
| Guide rails |  | Guide rails (2 pcs.) for 160 mm deep eurocassettes. | 39-1 C |
| Guide rails |  | Aluminum guide rails (2 pcs.) with plastic head; for eurocassettes with a depth of 196 mm . The rails can be utilised in 5.08 mm section widths in the Subrack. | 39-1B |
| Female multipoint connector |  | Female multipoint connector with 11 high current contacts | 39-1 D |
| Male multipoint connector |  | Male multipoint connector with leading earth contact, for female multipoint connector 39-1D | 39-1E |
| Female multipoint connector |  | Female multipoint connector with 7 high current contacts and 24 wire wrap posts | 39-1F |
| Male multipoint connector | $\begin{aligned} & =\rightleftarrows \\ & \Longrightarrow= \end{aligned}$ | Male multipoint connector for female multipoint connector 39-1F, equipped with angled soldering contacts | 39-1G |
| Female multipoint connector |  | Female multipoint connector with 64 wire wrap posts, rows a and c loaded (DIN 41612, model C) | 39-1 H |
| Male multipoint connector |  | Male multipoint connector for female multipoint connector 39-1 H (model C), equipped with 64 angled soldering contacts | 39-1J |
| Female multipoint connector |  | Female multipoint connector with 96 wire wrap posts, rows a, b and c loaded (DIN 41612, model C) | 39-1 K |
| Male multipoint connector |  | Male multipoint connector for female multipoint connector 39-1 K (model C), equipped with 96 angled soldering contacts | 39-1L |

Ordering accessories for rack mounts is only necessary if spare parts are required or if the rack is to be extended. All Elabo insert panels, slide-in units and cassettes are always supplied fully equipped and ready for use. Includes cable set, guide rails and mains connectors (male/female multipoint connectors).
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## System 6HU

## Technical information

## The System 6HU is comprised of Insert panels, inserts and 2-row Subracks for holding System 3HU eurocassettes

Front panels:
All front plates are comprised of 3 mm hard aluminum, powder-coated in light grey on both sides (similar to RAL 7035). The lettering is applied with indelible screen printing
Inserts:
All inserts are additionally equipped with perforated steel side panels, an adjustable chassis plate and a mounting bracket. The rea side of the insert is equipped with a 6 -pin Harting plug with a leading earth contact.

Subracks:
or supporting eurocassettes from the 3 HU eurocassette system.
aterally closed aluminum support sheets, which support the front and rear traverse profiles
ront and rear profiles equipped in 5.08 mm grids with M2.5 thre
for female multipoint connectors in accordance with DIN 41612 .
6 HU devices can be used in superstructures of the product lines InFom and EcoTec, as well as in Pimus One.
Distinguishing features

EcoTec / InForm

## Please note:

Cassettes and Insert panels for EcoTec and InForm have to be
ordered with the stated article number.
Example
for InForm/EcoTec


Installation widths
WU = Installation width $111,5 \mathrm{~mm}$ $2 \mathrm{WU}=$ Installation width $229,0 \mathrm{~mm}$
$4 W U=$ Installation width 4640 mm $6 \mathrm{WU}=$ Installation width $699,0 \mathrm{~mm}$
nsert panel $=260,0 \mathrm{~mm}$

Primus One


Installation widths
18HP = Installation width $91,4 \mathrm{~mm}$ $21 \mathrm{HP}=$ Installation width $106,6 \mathrm{~mm}$ $24 \mathrm{HP}=$ Installation width $121,9 \mathrm{~mm}$ $42 \mathrm{HP}=$ Installation width $213,3 \mathrm{~mm}$ $88 \mathrm{HP}=$ Installation width $447,0 \mathrm{~mm}$ $96 \mathrm{HP}=$ Installation width $487,6 \mathrm{~mm}$

Insert panel $=260,0 \mathrm{~mm}$

## Safety- and protection modules

Use of devices with system Primus One 6 HU please add the letter "K" to article number

## Example:

32-1 J.K.

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Mains supply panel 6HU/1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel Mains supply panel <br> 1 Earth-leakage circuit breaker type A 2-pole 16 A / 10 mA <br> 1 Circuit breaker 16 A C <br> 1 Contactor <br> 1 Key switch button <br> 1 Off button <br> 1 External conductor indicator lamp | 32-0D |
| Mains supply panel 6HU/1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel Mains supply panel <br> 1 Earth-leakage circuit breaker Type A 2-pole 25 A / 30 mA <br> 1 Motor circuit breaker 10..16 A with thermal and magnetic actuation <br> 1 Undervoltage actuator for protection against autonomous voltage return <br> 1 Key-operated switch <br> 1 External conductor indicator lamp <br> like 32-0B, but with <br> 1 Earth-leakage circuit breaker type B 4-pole 25 A / 30 mA | $32-0 B$ 32-0B Z024 |
| Mains supply panel 6HU/1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel Mains supply panel <br> 1 Earth-leakage circuit breaker 4-pole $25 \mathrm{~A} / 30 \mathrm{~mA}$ <br> 1 Motor circuit breaker 10...16 A with <br> 1 Undervoltage actuator for protection against autonomous voltage return <br> 1 Key-operated switch <br> 3 External conductor indicator lamp <br> Type A, for alternating residual currents and pulsating direct residual currents <br> Type B, sensitive to all current types, also for non-pulsating direct residual currents | $\begin{aligned} & 32-0 \mathrm{~A} \\ & 32-0 \mathrm{~F} \end{aligned}$ |
| Mains supply panel 6HU/2WU <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Insert panel Mains supply panel <br> 1 Earth-leakage circuit breaker type A 4 -pole 25 A / 30 mA <br> 1 Motor circuit breaker 10... 16 A <br> 1 Undervoltage actuator <br> 4 Schuko sockets for drawing $230 \mathrm{~V} / 16 \mathrm{~A}$ <br> 5 Safety lab terminals for drawing $400 \mathrm{~V} / 16$ A, designated L1, L2, L3, N, PE <br> 1 non-wired emergency-off mushroom button with snap-on contact and yellow signal ring <br> 1 Key-operated mushroom switch <br> 3 External conductor indicator lamp <br> like 32-0C, but <br> 1 Earth-leakage circuit breaker type B 4 -pole $25 \mathrm{~A} / 30 \mathrm{~mA}$ | $32-0 \mathrm{C}$ 32-0c Z001 |

## AC power supply, fixed

AC- power supply 1-phase, fixed
 mervicing and development capacities, in production test rooms or as floating voltage supply systems for training

## Technical data

| Description |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| AC power supply 1 -phase <br> $6 \mathrm{HU} / 1 \mathrm{WU}$ <br> $6 \mathrm{HU} / 21 \mathrm{HP}$ |  |  | Order no. |

AC- power supply 1-phase and 3-phase, fixed
Elabo plates and inserts with floating alternating current voltage can be used in many ways - e.g. for measure-
ments of inductivities and capacities, in production test rooms or as floating voltage supply systems for training servicing and development.

Technical data

| Description |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| AC power supply 1-phase |
| $6 \mathrm{HU} / 2 \mathrm{WU}$ |
| $6 \mathrm{HU} / 42 \mathrm{HP}$ |

AC- Power supply 1-phase and 3-phase, fixed
Elabo floating AC voltage slide-in units and insert panels are suitable for a wide range of applications.
For example, measuring inductances and capacities, in manufacturing test bays or as floating power supplies in For example, measuring inductances

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| AC power supply 1 - and 3 -phase $6 \mathrm{HU} / 4 \mathrm{WU}$ $6 \mathrm{HU} / 88 \mathrm{HP}$ |  | Insert panel for supplying with non-floating <br> 3-phase <br> alternating current 230 / 400 V 16 A delta <br> or wye with analogue displays <br> Rotary switch I/O <br> Rotary switch 0 / delta / wye <br> Incandescent bulbs <br> Rotary switch 6-stage <br> 1 Voltmeter analog $0 . . .400 \mathrm{~V}$, <br> Moving armature Class 1,5 <br> 3 ammeter analogue 0...15A with 45A overload <br> scale, moving armature Class 1.5 <br> CEE-Socket 5p380 V16 AB <br> 5 Safety lab terminals L1 / U1, L2 /V1, <br> L3 / W1, N, PE <br> 3 Safety lab terminals U2, V2, W2 <br> 2 Schuko sockets <br> 3 Safety lab terminals | 36-0E |
| AC power supply 1- and 3-phase $6 \mathrm{HU} / 1 \mathrm{WU}$ $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel for supplying with floating 3-phase alternating current $3 \sim 23 / 40 \mathrm{~V} / 3 \mathrm{~A}$ <br> 4 laboratory safety sockets for drawing alternating current <br> 3 Thermic-magnetic circuit breakers <br> 3 External conductor indicator lamp <br> 1 Rotary switch <br> 1 current transformer with fine wire fuses | 32-1G |
| AC power supply 1 - and 3 -phase 6HU / 1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel zur Power supply with non floating alternating current $3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 / 400 \mathrm{~V} 16 \mathrm{~A}$ <br> 5 Safety lab terminals for drawing alternating current <br> 3 External conductor indicator lamp <br> 1 Off switch | 32-1H |
| AC power supply 1- and 3 -phase $6 \mathrm{HU} / 1 \mathrm{WU}$ $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel for Power supply with alternating current <br> 1 CEE-Socket 16 A <br> 5 Safety lab terminals L1, L2, L3, N, PE for drawing alternating current <br> 1 Schuko socket for drawing alternating current voltage | 32-1L |

## AC power supply, adjustable

Adjustable AC power supply

Technical data

| Description |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| AC power supply 1-phase |
| $6 \mathrm{HU} / 2 \mathrm{WU}$ |
| $6 \mathrm{HU} / 42 \mathrm{HP}$ |

## Adjustable AC-Stabilization byser

For regulated AC power supplies with variable output voltages stabiization bysation of the alternating current is achieved electro-
mechanically using a motor-driven variable transformer, electronic stabilization byser unit and a downstream isolation transformer. mechanically ysing a motor-driven variable transformer, electronic stabilization byser unit and a downstream isolation transformer Drift is $\pm 2 \mathrm{~V}$ for an output voltage V desired of 260 V . The output voltage can be precisely set using a ten-turn helical potentiome-

Technical data

| Description |  | Order no. |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Smart AC-Stabilization |  |  |
| $6 \mathrm{HU} / 2 \mathrm{WU}$. |  |  |
| $6 \mathrm{HU} / 42 \mathrm{HP}$ |  |  |

AC/DC-power supply
switched over to direct current. Moving armature instruments with effective value displays are installed for current switched over to direct current. Moving armature instruments with effective value displays are installed for current
and voltage measurement. The voltage adjustment is accomplished by means of a variable transformer. The pulsating direct current exhibits a ripple of $48 \%$. All devices are equipped with an AC/DC selection switch and can also be upon request.
Technical data

| Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| AC / DC-power supply |
| $6 \mathrm{HU} / 2 \mathrm{WU}$ |
| $6 \mathrm{HU} / 42 \mathrm{HP}$ |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| AC / DC-power supply $6 \mathrm{HU} / 2 \mathrm{WU}$ $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in for supplying with floating alternating current voltage or direct current and additional protective function (forced replugging of the load). <br> AC/DC $0 \ldots 260 \mathrm{~V} / 3 \mathrm{~A}$, can be switched over to. $0 . .50 \mathrm{~V} / 10 \mathrm{~A}$, <br> 1 analogue Voltmeter <br> Effective ripple of the direct current: approx. 48\% <br> 6 Safety lab terminals <br> 1 Rotary knob for adjusting the voltage <br> 1 changeover switch from alternating current voltage to direct current <br> 1 changeover switch $50 \mathrm{~V} / 260 \mathrm{~V}$ <br> 2 Thermic-magnetic circuit breakers <br> 1 Illuminated rocker switch <br> Additional safety is ensured with the $35-0 \mathrm{~K}$ device in that the load must be unplugged and then replugged at the laboratory safety sockets when switching from alternating current voltage to direct current or from extra-low voltage to low voltage. | 35-0K |
| AC / DC-power supply $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in for supplying with floating alternating current voltage in the ranges: <br> $0 . . .260 \mathrm{~V} / 3 \mathrm{~A}$ <br> 0... $42 \mathrm{~V} / 6 \mathrm{~A}$ <br> 0 ... 12V/15 A <br> 1 freely switchable rectifier (B2-300 V/16 A) for rectifying the alternating current voltages Ripple of the rectified voltages: approx. $48 \%$ <br> 1 Rotary knob for adjusting the voltage <br> 8 Safety lab terminals <br> 3 Thermic-magnetic circuit breakers <br> 1 Illuminated rocker switch | 35-0L |

## AC power supply 3-phase adjustable

Elabo eurocassettes with direct current and alternating current voltage for supplying devices in the laboratory and rmature instruments installed with effective value display.

## Technical data

| Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| AC power supply |
| 1- and 3-phase |
| $6 \mathrm{HU} / 2 \mathrm{WU}$ ( |
| $6 \mathrm{HU} / 42 \mathrm{HP}$ |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| AC power supply $6 \mathrm{HU} / 4 \mathrm{WU}$ $6 \mathrm{HU} / 88 \mathrm{HP}$ |  | Plug-in module with non-floating 3-phase alternating current $0 . . .230 / 400 \mathrm{~V} / 5 \mathrm{~A}$ ltransient 6 A) with electromotive control for variable voltage adjustment <br> 1 CEE Socket 16A <br> 5 Safety lab terminals <br> 1 Schuko Socket <br> 3 Safety lab terminals <br> 3 phase controll lamps <br> 1 10-turn potentiometer for manual adjustment of the output voltage <br> 1 rocker pushbutton switch for switching off the output voltage <br> The following measurement values can be selected for display by means of a multi-function display feature: <br> Neutral conductor current, active power measurement ( W ), idle power measurement (VAr kap, VAr ind), apparent power measurement (VA), power factor measurement (cos phi), frequency. | 36-5A |
| $\underset{\substack{\text { NETWorkable }}}{\text { net }}$ |  | like 36-5A <br> with 2 Ethernet interfaces for remote control | 36-5A Z102 |
| AC-Measuring unit 6HU / 2WU <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ <br> NET <br> networkable |  | Plug-in module <br> Multifunctional display brand Janitza for measuring storing an monitoring of electrical values as: <br> - voltage <br> - current <br> - frequency <br> - power factor <br> - effective power <br> - apparant power <br> - reactive power per phase and in total <br> - real energy <br> - reactive energy <br> - Cos Phi <br> Measuring accuracy (related to nominal value) <br> current, voltage $\pm 0,2 \%$, power $\pm 0,5 \%$ <br> power factor $\pm 0,5 \%$, energy $\pm 0,5 \%$ <br> frequency $\pm 0,02 \mathrm{~Hz}$ (absolut) <br> Design: connection of power supply and aonsumer in front via $2 \times 5$ safety lab terminals L1, L2, L3, N, PE <br> Internal: <br> AC 3~ 0...230/400V 16 A <br> External: <br> Rated voltage L- L 480 V, L-N 277 V <br> Current: 16 A <br> Including Ethernet-Interface <br> Other voltages and current ranges available optionally. Elabo cassettes can supply direct and alternating voltage to laboratory and test bay equipment. The voltage is <br> set on a variable toroidal transformer via a rotary knob with $100 \%$ scale. Analogue moving-iron instruments <br> with root-mean-square indication are fitted. | 36-5B |

## AC / DC- power supply 3-phase

Elabo cassettes can supply direct and alternating voltage to laboratory and test bay equipment. The voltage is set on
a variable toroidal transformer via a rotary knob with $100 \%$ scale. Analogue moving-iron instruments with root-meansquare indication are fitted.

## Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| AC / DC-power supply $6 \mathrm{HU} / 4 \mathrm{WU}$ $6 \mathrm{HU} / 88 \mathrm{HP}$ |  | Plug-in module with continuously adjustable, non-floating 3-phase alternating current and direct current with $5 \%$ RW 3-phase alternating current: <br> $3 / \mathrm{N} /$ PE $0 \ldots . .400 \mathrm{~V}$ AC / 8 A <br> can be switched over to direct current: <br> $0 . .500 \mathrm{~V} / 10 \mathrm{~A}$ <br> ripple approx. 5\% effective <br> analogue Voltmeter $0 . . .500 \mathrm{~V}$ <br> analogue Voltmeter $0 . . .10 \mathrm{~A}$ <br> rotary knob for adjusting the voltage <br> changeover switch for 3-phase alternating <br> current and direct current <br> 1 voltmeter changeover switch - can be switched to outer conductor/outer conductor or to outer conductor / neutral conductor, as well as into the direct voltage circuit <br> 5-pin CEE socket <br> Schuko socket for variable voltage <br> Schuko socket for mains voltage <br> Safety lab terminals L1, L2, L3, N, PE <br> Laboratory safety sockets for direct current <br> Protective earth wire laboratory socket <br> 3 Thermic-magnetic circuit breakers <br> $\begin{array}{ll}3 & \text { External conductor } \\ 1 & \text { 4-poler Off switch }\end{array}$ | 36-1C |
|  |  | like $36-1 \mathrm{C}$, but with 3 -phase alternating current: $3 / \mathrm{N} / \mathrm{PE} 0 . . .400 \mathrm{~V}$ AC / $5 \mathrm{~A} / 50 \mathrm{~Hz}$, can be switched over to direct current: $0 \ldots . .500 \mathrm{~V} / 6 \mathrm{~A}, 1$ 3 -phase ring core variable transformer | 36-1A |
| AC / DC-power supply $6 \mathrm{HU} / 4 \mathrm{WU}$ $6 \mathrm{HU} / 88 \mathrm{HP}$ |  | Plug-in module with continuously adjustable, non-floating 3 -phase alternating current and direct current with $18 \%$ RW and additional fixed direct current with $48 \%$ RW 3 -phase alternating current: <br> $3 / \mathrm{N} / \mathrm{PE} \quad 0 . . .400 \mathrm{VAC} / 5 \mathrm{~A} / 50 \mathrm{~Hz}$ can be <br> switched over to direct current: <br> $0 . . .250 \mathrm{~V} / 6 \mathrm{~A}$, ripple approx.. $18 \%$ effective <br> Fixed voltage: $230 \mathrm{~V} / 3 \mathrm{~A}$, <br> ripple approx. $48 \%$ effective <br> 1 Analogue Voltmeter $0 \ldots . .400 \mathrm{~V}$ <br> 3 Analogue Ammeter $\begin{array}{ll}\text { 1. Range } & 0 . .6 \mathrm{~A} \\ \text { 2. Range } \\ 0 \ldots .1 .5 \mathrm{~A}\end{array}$ <br> 1 Measurement range changeover switch 1.5 / 6 A <br> 1 Rotary knob for adjusting the voltage <br> current or direct current <br> 1 Voltmeter changeover switch - can be switched to outer conductor/outer conductor or to outer conductor / neutral conductor, as well as into the direct voltage circuit <br> 1 5-pole CEE-Socket <br> 1 Schuko Socket for variable voltage <br> $\begin{array}{ll}5 & \text { Safety lab terminals L1, L2, L3, N, PE } \\ 2 & \text { Laboratory safety }\end{array}$ <br> 2 Laboratory safety sockets for variable direct current <br> 2 Laboratory safety sockets for fixed direct current <br> 1 Protective earth wire laboratory socket <br> 7 Thermic-magnetic circuit breakers <br> 3 External conductor indicator lamp <br> 1 4-poler Off switch | 36-1D |
|  |  | like 36-1 D , but with 3 -phase alternating current: $3 / \mathrm{N} / \mathrm{PE} 0 . . .400 \mathrm{~V} \mathrm{AC} / 8 \mathrm{~A} / 50 \mathrm{~Hz}$, can be switched over to direct current: $0 . .250 \mathrm{~V} / 10 \mathrm{~A}$, ripple approx. 18\% effective <br> Fixed direct current: $230 \mathrm{~V} / 3 \mathrm{~A}$, ripple approx. $48 \%$, effective <br> 1 analogue voltmeter $0 . . .400 \mathrm{~V}$ <br> 3 analogue ammeters <br> 1st range $0 . . .10 \mathrm{~A} ; 2$ 2nd range $0 \ldots 2 \mathrm{~A}$ | 36-1E |



Highlights
Test panel with three current ranges 6HU / 6WU
Operating modes
"Mains"
Mains voltage is connected, via the measurement instruments, to the lab terminals resp. socket outlets. In this switch position the output terminals and sockets are supplied with a continuously adjustable voltage from
Setting 1 selector switch "Mains"- 0- "Trafo"

Current measurement
Selection $\quad 3$ ranges 2 A/ 10 A/ 40 A, selectable by using three mutually cancelling push- buttons
Display $\quad 3$ moving coil ammeters protected by two 3 -pole automatic circuit breakers for each range. Current measurement ranges are combinedly switched over As range- changing does not interrupt the suply no new inrush surges occur This makes exact measurement of the current possible, e.g. after starting up an electric motor
Voltage meas
Selection $\quad 1$ button: Min and Max are used to set the voltage when a motorized variable- ratio transformer is in use to be ordered Display seperatly "Min" button decreases, "Max" button increases the voltage
Display moving-coil voltmeter $0 \ldots 400 \mathrm{~V}$ with measuring rectifier and linear scale can be switched to phase / phase or phase
Continuity test
Mains supply
6 laboratory terminals 63 A, for combinations of push- lock terminal connection, in terminal board arrange
Mair switch 1 key- switch- On
1 off push button
$1 \times 5$ - pole contactor
3 - phase indicator lamp
Protection 1 fuse (control circuit)
$\begin{array}{ll}\text { Motor start } & 13 \text {-pole circuit breaker } 16 \mathrm{~A} \\ 1 \text { reversing star- delta switch: }\end{array}$
Optional features Module rectifier 25 A model $36-2 \mathrm{~B}$
Module rectifier 40 A model 36 -2
Module pole- changing switch model 36-2D.
Themark 3 - porse wial
It has to be ordered separately (model $36-2 \mathrm{G}$ or $36-2 \mathrm{H}$ )

## Test panels

 his test panel allows 4 current ranges to be selected. For clear reading there are 4 large moving coil ammeters intsed together with a 3 - phase variable- ratio transformer the operator can perform a multitude of applications fault diagnosis of single and 3 phase equipment of all kind.


Highlights
Test panel with four current ranges 6HU/6WU

## Operating modes "Mains"

"Mains"
Mains voltage is connected, via the masurement instruments, to the lab terminals, resp. socket outlets. In this position the output terminals and socket outlets are supplied with a continuously adjustable voltage from a variable- ratio transformer (not part of the delivery, it has to be ordered seperately
Setting ${ }^{1}$
Current measurement Selection

4 ranges $1.5 \mathrm{~A} / 4 \mathrm{~A} / 15 \mathrm{~A} / 40 \mathrm{~A}$, selectable by using four mutually cancelling push- bottons.
3 moving-coil ammeters protected by 3 pole automatic circuit breakers for each range. Current measurement ranges
are combinedly switched over. As range- changing does not interrupt the supply, no new inrush surges occur. This makes exact measurement of the current possible, e.g. after starting up an electric motor.
Voltage measurement
Selection button: Min and Max are used to set the voltage when a motorized variable- ratio transformer is in use button: Min and Max are
(to be ordered separately).
"Min" button decreases,
"Max" button increases the voltage
Display 1 moving-coil voltmeter $0 \ldots 400 \mathrm{~V}$, with measurement rectifier and linear scale; can be switched to phase / phase or phase / neutral

Continuity testing: High-resistance 230 VAC , displayed by 230 V glow lamp low-resistance 24 V AC , displayed by 24 V incandescent lamp.
Mains supply: $\quad 1$ marked in-line terminal block for three-phase 3 / N/PE $\sim 50$ Hz 400 V/40 A
Outputs:
1 CEE socket 16 A 5 -pole 6 laboratory terminals 63 A, for combinations of push-lock terminal connection, in terminal board arrangement.
$\begin{array}{ccc}\text { W2 } & \text { U2 } & \text { V2 } \\ \text { L1/U1 } & \text { L2/V1 } & \text { L3/W1 }\end{array}$
2 laboratory terminals, 63A N/PE with pushlock terminal connection
Main switch: $\quad 1$ keyswitch ON
1 off push button
$1 \times 3$ pole contacto
$1 \times 3$ pole contactor
3- phase indicator lamp
1 fuse (control circuit)
Protection: $\quad 1$ fuse (control circuit)
1 3-pols
Optional features: Module rectifier 25A model 36-2B,
Module rectifier 25A model 36-2
Module pole-changing switch model 36-2D
Remark: The 3 - phase variable-ratio transformer is not included in the deliver. It has to be ordered separately (model $36-2 \mathrm{G}$ or $36-2 \mathrm{H})$

Technical data

| Description |  | Order no. |
| :---: | :---: | :---: |
| Variable ratio 3- phase transformer 6 HU | Variable ratio 3- phase transformer with motor drive for test panels 36-2A and 36-3A. <br> 1 powder coated sheet steel housing $W=420 \mathrm{~mm}, \mathrm{D}=405 \mathrm{~mm}, \mathrm{H}=690 \mathrm{~mm}$ <br> Degree of protection IP 20 | 36-2G Zxx |
| Variable ratio 3- phase transformer 6 HU | Variable ratio 3- phase transformer with motor drive for test panels 36-2A and 36-3A. <br> 1 powder coated sheet steel housing <br> $W=660 \mathrm{~mm}, \mathrm{D}=410 \mathrm{~mm}, \mathrm{H}=1030 \mathrm{~mm}$, <br> protected to IP 20 | 36-2H Zxx |
| Inrush current limiter 6 HU | Inrush current limiter for variable- ratio 3- phase transformer model 36-2G (25 A). <br> When the transformer is switched on, a very high initial current flows which may trip the supply circuit breakers. By fitting the current limiting device, this inrush current is limited to a tolerable level. The device is installed in the transformer housing and wired into the primary circuit. $W=150 \mathrm{~mm}, \mathrm{D}=100 \mathrm{~mm}, \mathrm{H}=120 \mathrm{~mm}$ | 36-2E |
| Inrush current limiter 6HU | Inrush current limiter for variable- ratio 3-phase transformer model 36-2H (40 A) $W=150 \mathrm{~mm}, \mathrm{D}=100 \mathrm{~mm}, \mathrm{H}=120 \mathrm{~mm}$ | 36-2F |

Application: Limitation of starting currents, review of stators and rotors when unmounted, error analysis e.g. for interturn. All variable rransformers can be strained with the maximum current over the entire operating range. The drive is diven by a capacitor motor. Neozed-elements are installed for protection. The transformers have each 5 m connecting lead for connection to test bay inserts.

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Rectifier panel $6 \mathrm{HU} / 2 \mathrm{WU}$ $6 \mathrm{HV} / 42 \mathrm{HP}$ |  | Plug-in module with 3-phase rectifier <br> Input: $3 \times 0 \ldots . .400 \mathrm{~V} \mathrm{AC} / 50 \mathrm{~Hz}$ <br> Output: $0 . . .500 \mathrm{~V} / 25 \mathrm{~A} D C$ <br> 1 Moving-coil voltmeter $0 \ldots 500 \mathrm{~V}$ <br> 1 Moving-coil ammeter 0...25 A Residual ripple of DC: approx. 5\% for 3-phase connection approx. 48 \% for AC connection <br> 3 screw type lab terminals for 3-phase supply <br> 2 screw type lab terminals for tapping off DC output voltage <br> 1 PE screw type lab terminal | 36-2B |
| Rectifier panel 6HU / 2WU $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug- in module with 3-phase bridge rectifier <br> Input: $3 / \mathrm{N} / \mathrm{PE} 0 . . .400 \mathrm{VAC} / 50 \mathrm{~Hz}$ <br> Output: $0 \ldots . .500 \mathrm{~V} / 40 \mathrm{~A}$ DC <br> Moving-coil voltmeter $0 . . .500 \mathrm{~V}$ <br> Moving-coil ammeter $0 . . .40 \mathrm{~A}$ <br> Residual ripple of DC: <br> approx. 5\% for 3-phase connection <br> approx. $48 \%$ for AC connection <br> 3 screw type lab terminals for 3-phase supply <br> 2 screw type lab terminals for tapping off DC <br> output voltage <br> 1 PE screw type lab terminal | 36-2C |
| Pole- changing switch $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Insert panel with: <br> 1 Dahlander pole changing switch 40 A <br> 6 screw type lab terminals 63 A , arranged in terminal board layout <br> 1 5-pole CEE- socket outlet 32 A <br> 1 PE-screw type lab terminal <br> The panel is used in combination with test panels 36-2A e.g. 36-3A | 36-2D |

## DC-power supply, fixed

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Regulated DC stabilizer $6 \mathrm{HU} / 1 \mathrm{WU}$ <br> $6 \mathrm{HU} / 21 \mathrm{HP}$ | 픙 <br> $\because \bullet$ | Insert panel with a DC stabilizer <br> DC voltage $\pm 15 \mathrm{~V} / 1 \mathrm{~A}$ and $5 \mathrm{~V} / 3 \mathrm{~A}$ <br> The two outlets are electrically isolated from each other and are protected against short circuiting. <br> Residual ripple: $<5 \mathrm{mV}_{\text {efft }}<15 \mathrm{mV}_{\mathrm{ss}}$ Load smoothing: < 50 mV (no load / full load) Transient time: type $50 \mu \mathrm{~s}$, max. $100 \mu \mathrm{~s}$ Temperature coefficient: $150 \mathrm{ppm} / \mathrm{K}$ <br> 1 Illuminated rocker switch <br> 5 safety lab terminals for DC output voltages | 32-1D |
| Regulated DC stabilizer $6 \mathrm{HU} / 1 \mathrm{WU}$ <br> $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel regulated DC stabilizer in <br> cost- effective switching <br> Recovery time: max. $500 \mu \mathrm{~s}$ <br> 1 illuminated rocker switch <br> $5 \mathrm{~V} / 5 \mathrm{~A}$ <br> Residual ripple $80 \mathrm{mV}_{\text {eff }}$ <br> Load smoothing: + /- 1 \% <br> Temperature coefficient: $0,03 \% /{ }^{\circ} \mathrm{C}$ Operating voltage: 88-264 V AC <br> 2 Safety lab terminals $+/-15 \mathrm{~V} / 2 \times 2 \mathrm{~A}$ <br> Residual ripple: $2 \times 120 \mathrm{mV}$ eff <br> Load smoothing: + /-0,5 \% <br> Temperature coefficient: $0,03 \% /{ }^{\circ} \mathrm{C}$ <br> Operating voltage: $88 . . .264$ V AC <br> 3 Safety lab terminals <br> $24 \mathrm{~V} / 6 \mathrm{~A}$ <br> Residual ripple: $150 \mathrm{mV}_{\text {eff }}$ <br> Load smoothing: + /- 0,5 \% <br> Temperature coefficient: $0,05 \% /{ }^{\circ} \mathrm{C}$ <br> Operating voltage: 85-264 V AC <br> 2 Safety lab terminals | $32-5 \mathrm{M}$ <br> 32-5N <br> 32-5P |

## DC-power supply, adjustable

Smart DC laboratory power supply systems with arbitrary function


Highlights
Operating modes
The different operating modes of dual-output power supply units offer the option to control the output voltage of part 2 as a function (0-100\%) of part 1 while complying with all control characteristics
Output voltage in serial and parallel operation is drawn from the left channel.
Master-slave operation
Both power module s are electrically isolated from one another, but are controlled together.

## Parallel operation

Both power module sare connected internally in parallel, so that the double output current can be drawn from the output terminals of power module 1
Serial operation
Both power module s are connected internally in series. The double output voltage can be drawn from the respective external terminals.
Tracking operation
Both power module s are connected internally in series, so that, with reference to the two terminals in the middle, plus ( +30 V ) or minus $(-30 \mathrm{~V})$ voltage can be drawn.

Power supply unit with measuring function
Elabo power supply units, in addition to supplying power, are also perfectly suited for the accurate measurement of actual values. Current and voltage values are measured at intervals of 50 ms and can be read out on the interface of the device.

Device limitation
Output voltage and output current can be limited via remote control or also in local mode. This is particularly useful in a training environment or for protecting sensitive components. Such settings are password-protected.

Smart DC laboratory power supply systems with arbitrary function

Arbitrary function
The lab power supply units have an arbitrary function that makes it possible to program and execute predeter mined functions or freely definable voltage and power curves.

The following functions can be selected:

- Sinus
- Square
- Triangle
- Sawtooth

PWM


The freely programmable mode makes it possible to program up to 6 curves each with 99 support points. In this mode, one always presets the start value and end value for current and voltage, and also the duration. In the automatic and rotary switch versions, the arbitrary function can be used only via the interface.

| Power class <br> Feature | 120 W | 600 W |
| :--- | :--- | :--- |
| Channel | 2 | 1 |
| Voltage | $2 \times 0 \ldots 30 \mathrm{~V}$ | $0 \ldots 60 \mathrm{~V}$ |
| Current | $2 \times 0 \ldots 2 \mathrm{~A}$ | $0 \ldots 10 \mathrm{~A}$ |
| Size | $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ | $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |
| Version: | $34-7 \mathrm{~T}$ | $34-7 \mathrm{~L}$ |
| Digital | $34-8 \mathrm{~T}$ | $34-8 \mathrm{~L}$ |
| Touch |  |  |


| Power class | 600 W | 1200 W | 1200 W |
| :--- | :--- | :--- | :--- |
| Feature |  |  |  |$\quad$| Channel | 1 | 1 |
| :--- | :--- | :--- |
| Voltage | $0 \ldots 30 \mathrm{~V}$ | $0 \ldots 30 \mathrm{~V}$ |



34-7T. 3

## Highlights

4 operating modes for master-slave operation/dual output voltage ( $0-60 \mathrm{~V}$ )/dual output current ( $0-4 \mathrm{~A}$ )/ symmetrical voltage supply ( $\pm 30 \mathrm{~V}$ )
Output limitation, password-protected
Predefinable power-ON values
Direct and remote control operation in parallel possible
Interference voltage protection
Ethernet and USB interfaces
Integrated web server
Arbitrary function
Scope of delivery
34-xT. 3
Plug-in module 6HU / 2WU
34-xT.K Plug-in module 6HU / 42HP
Accessories
83-5B ZBL Safety test lead blue 100 mm
83-5B ZRT Safety test lead red 100 mm
Recommended additional products
N2-1A Elabo software package Elution ${ }^{\oplus}$ Device
N2-5A Elution® Device driver Smart DC


NET

Iabo Ordering Catalogue Page 292


Highlights

- Output limitation, password-protected

Display for voltage, current and powe
Predefinable power-ON values
Direct and remote control operation in parallel possible
Interference voltage protection
Ethernet and USB interfaces
Arbitrary function
Scope of delivery
34-xL. $3 \quad$ Plug-in module 6HU / 2WU
34-xL.K Plug-in module $6 \mathrm{HU} / 42 \mathrm{HP}$
Accessories
83-5B ZBL Safety test lead blue 100 mm
83-5B ZRT Safety test lead red 100 mm
Recommended additional products
N2-1A Elabo software package Elution ${ }^{\oplus}$ Device N2-5A Elution Device driver Smart DC

Technical data

| Voltage |  |
| :---: | :---: |
| Output voltage | 0... 60 V |
| Adjusting resolution | 10 mV |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0,15\% $\pm 3$ Digits |
| Residual ripple | $<2 \mathrm{mV}$ eff |
| Current |  |
| Output current | 0...10 A |
| Adjusting resolution | 10 mA |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0,15\% $\pm 3$ Digits |
| Residual ripple | $<1 \mathrm{~mA}_{\text {eff }}$ |
| Arbitrary function |  |
| Number of support points | $6 \times 99$ Support points |
| Structure of support points | Start/stop voltage, start/stop current, time |
| Predefined curves for | Sine, triangle, square, sawtooth and more (up to 10 Hz ) |
| Operation | Rotary switch version: via interface/Elution® software Touch version: via display |
| General information |  |
| Regulation | Linear regulator with stepped pre-control |
| Stabilization byty over 8 hours | 0,3\% |
| Adjusting resolution | 12bit |
| Protection | Short circuit-proof, thermal overload protection, interference voltage protection |
| Output insulation | Ungrounded and isolated $\pm 250 \mathrm{~V}$ to ground |
| Humidity | 25-75 \% rel. humidity |
| Operating temperature range | $0 \ldots 50^{\circ} \mathrm{C}$ |
| Mains supply | $230 \mathrm{~V} \pm 10 \%, 49-61 \mathrm{~Hz}$ |
| Display | Rotary switch version $2 x$ two-line LCD, blue Touch operation 4.3" $\times 128$ pixels, blue |
| Interface | Ethernet and USB, RS232 alternative to USB |
| Degree of protection | Protection class I (EN61010-1) |
| Power consumption | 690 W |
| Cassette dimensions | $\mathrm{W}=229 \mathrm{~mm}, \mathrm{D}=260 \mathrm{~mm}, \mathrm{H}=266 \mathrm{~mm}$ |
| Weight | 19,3 kg |

NET
networkable

Laboratory power supply unit $0 . .30 \mathrm{~V} / 0 \ldots 20 \mathrm{~A} / 600 \mathrm{~W}$


Highlights
Output limitation, password-protected
Display for voltage, current and powe
Predefinable power-ON values
Direct and remote control operation in parallel possible
Interference voltage protection
Ethernet and USB interfaces
Arbitrary function
Power output with On/Off function

Scope of delivery
34-xJ. 3 Plug-in module 6HU / 4WU
34-xJ.K Plug-in module 6HU / 88HP
Recommended additional products
N2-1A Elabo software package Elution ${ }^{\oplus}$ device N2-5A Elution ${ }^{\oplus}$ Device driver DC

NET
networkable

Laboratory power supply unit
0... 30 V / 0... 20 A / 600 W

Technical data

| Voltage |  |
| :---: | :---: |
| Output voltage | $0 \ldots 30 \mathrm{~V}$ |
| Adjusting resolution | 10 mV |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0.15 \% (Display $\pm 3$ Digits) |
| Residual ripple | <2 mVeff |
| Current |  |
| Output current | 0... 20 A |
| Adjusting resolution | 1 mA |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | $0.15 \%$ (Display $\pm 3$ Digits) |
| Residual ripple | < 1 mAeff |
| Arbitrary function |  |
| Number of support points | $6 \times 99$ Support points |
| Structure of support points | Start/stop voltage, start/stop current, time |
| Predefined curves for | Sinus, Triangle, Square, Sawtooth, and more (up to 10 Hz ) |
| Operation | Rotary switch version, automatic version: via interface/ Elution® software, Touch version: via display |
| General information |  |
| Regulation | Linear regulator with stepped pre-control |
| Stabilization byty over 8 hours | 0,3 \% |
| Adjusting resolution | 12 bit |
| Protection | Short circuit-proof, thermal overload protection, interference voltage protection |
| Output insulation | Floating and isolated $\pm 250 \mathrm{~V}$ to ground |
| Humidity | 25-75\% rel. humidity |
| Operating temperature range | $0 . .50{ }^{\circ} \mathrm{C}$ |
| Mains supply | $230 \mathrm{~V} \pm 10 \%, 49-61 \mathrm{~Hz}$ |
| Display | Rotary switch version $2 x$ two-line LCD, blue Touch operation $4,3^{\prime \prime} 240 \times 128$ Pixel, blue |
| Interface | Ethernet and USB, RS232 alternative to USB |
| Degree of protection | Protection class I (EN61010-1) |
| Power consumption | 690 W |
| Cassette dimensions | $\mathrm{W}=464 \mathrm{~mm}, \mathrm{D}=260 \mathrm{~mm}, \mathrm{H}=266 \mathrm{~mm}$ |
| Weight | $28,4 \mathrm{~kg}$ |

Laboratory power supply unit $0 \ldots 300$ V / $0 \ldots 4$ A / 1200 W


34-70. 3


34-80. 3

Laboratory power supply unit
$0 \ldots 300$ V / $0 \ldots 4$ A / 1200 W

Technical data

| Voltage |  |
| :---: | :---: |
| Output voltage | $0 \ldots 300 \mathrm{~V}$ |
| Adjusting resolution | 10 mV |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | 0.15 \% (Display $\pm 3$ Digits) |
| Residual ripple | <2 mVeff |
| Current |  |
| Output current | 0...4 A |
| Adjusting resolution | 1 mA |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | $0.15 \%$ (Display $\pm 3$ Digits) |
| Residual ripple | < 1 mAeff |
|  |  |
| Arbitrary function |  |
| Number of support points | $6 \times 99$ Support points |
| Structure of support points | Start/stop voltage, start/stop current, time |
| Predefined curves for | Sinus, Triangle, Square, Sawtooth, and more (up to 10Hz) |
| Operation | Digital version: via Interface / Elution Software Touch version: via Display |
|  |  |
| General information |  |
| Regulation | Linear regulator with stepped pre-control |
| Stabilization byty over 8 hours | 0,3 \% |
| Adjusting resolution | 12 bit |
| Protection | Short circuit-proof, thermal overload protection, interference voltage protection |
| Output insulation | Ungrounded and isolated $\pm 250 \mathrm{~V}$ to ground |
| Humidity | 25-75\% rel. humidity |
| Operating temperature range | $0 . .50^{\circ} \mathrm{C}$ |
| Mains supply | $230 \mathrm{~V} \pm 10 \%$, $49-61 \mathrm{~Hz}$ |
| Display | Digital version $2 \times$ LC-Display two-line, blue TouchOperation 4,3" $240 \times 128$ Pixel, blue |
| Interface | Ethernet und USB, RS232 alternative to USB |
| Degree of protection | Protection class I (EN61010-1) |
| Power consumption | 1290 W |
| Cassette dimensions | $\mathrm{W}=464 \mathrm{~mm}, \mathrm{D}=260 \mathrm{~mm}, \mathrm{H}=266 \mathrm{~mm}$ |
| Weight | $37,9 \mathrm{~kg}$ |

Laboratory power supply unit 0 ... 30 V / 0 ... 40 A / 1200 W


34-7N. 3

## Highlights

Output limitation, password-protected
Display for voltage, current and powe
Predefinable power-ON values
Direct and remote control operation in parallel possible
Interference voltage protection
Ethernet and USB interfaces
Arbitrary function
Power output with On/Off function

| Scope of delivery |  |
| :--- | :--- |
| $34-$ - N. 3 | Plug-in module $6 \mathrm{HU} / 4 \mathrm{WU}$ |
| $34-\mathrm{xN} . \mathrm{K}$ | Plug-in module $6 \mathrm{HU} / 88 \mathrm{HP}$ |

Recommended additional products
N2-1A
Elabo software package Elution® device
N2-5A
Elution ${ }^{\oplus}$ Device driver DC

NET
networkable

Laboratory power supply unit 0 ... 30 V / 0 ... 40 A / 1200 W

Technical data

| Voltage |  |
| :---: | :---: |
| Output voltage | $0 \ldots 30 \mathrm{~V}$ |
| Adjusting resolution | 10 mV |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | $0.15 \% \pm 3$ Digits |
| Residual ripple | <2 mVeff |
| Current |  |
| Output current | 0... 40 A |
| Adjusting resolution | 1 mA |
| Adjusting precision | $\pm 3$ Digits (type $\pm 2$ Digits) |
| Measuring accuracy | $0.15 \% \pm 3$ Digits |
| Residual ripple | < 1 mAeff |
| Arbitrary function |  |
| Number of support points | $6 \times 99$ Support points |
| Structure of support points | Start/stop voltage, start/stop current, time |
| Predefined curves for | Sinus, Triangle, Square, Sawtooth, and more (up to 10 Hz ) |
| Operation | Digital version:via Interface / Elution Software Touch version:via Display |
| General information |  |
| Regulation | Linear regulator with stepped pre-control |
| Stabilization byty over 8 hours | 0,3 \% |
| Adjusting resolution | 12 bit |
| Protection | Short circuit-proof, thermal overload protection, interference voltage protection |
| Output insulation | Floating and isolated $\pm 250 \mathrm{~V}$ to ground |
| Humidity | 25-75\% rel. humidity |
| Operating temperature range | $0 . .50^{\circ} \mathrm{C}$ |
| Mains supply | $230 \mathrm{~V} \pm 10 \%, 49-61 \mathrm{~Hz}$ |
| Display | Digital version $2 x$ LC-Display two-line, blue Touch operation 4,3" 240x128 Pixel, blue |
| Interface | Ethernet and USB, RS232 alternative to USB |
| Degree of protection | Protection class I (EN61010-1) |
| Power consumption | 1290 W |
| Cassette dimensions | $\mathrm{W}=464 \mathrm{~mm}, \mathrm{D}=260 \mathrm{~mm}, \mathrm{H}=266 \mathrm{~mm}$ |
| Weight | $38,2 \mathrm{~kg}$ |

## G Electronics

System 6HU

ELABO
euromicron Gruppe

Measuring- and signal devices

## Smart multimeter

Variable continuity tester, multimeter

Technical data


Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Continuity tester 6HU/1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with two continuity Testers <br> 1 electronic high-impedance continuity Tester <br> up to a maximum of 5 MOhm (acoustic) <br> Test current: <br> Voltage safety: <br> maximum $25 \mu \mathrm{~A}$ bis ca. 400 V AC <br> 1 low-impedance continuity Tester (optical) Test voltage: 22 V AC <br> 1 Fine wire fuse <br> 1 Illuminated rocker switch <br> 1 Transformer with separate input windings and output windings <br> 1 incandescent lamp <br> 1 miniature loudspeaker <br> $2 \times 2$ Safety lab terminals | 32-1B |
| Continuity tester $6 \mathrm{HU} / \mathrm{IWU}$ $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with low-impedance continuity Tester for testing switches; automatic cut-outs, etc.. <br> 1 Incandescent lamp optical display <br> 1 buzzer acoustic signal test voltage 22 VAC <br> 3 Safety lab terminals <br> 1 Illuminated rocker switch | 32-1T |
| Digital multimeter $6 \mathrm{HU} / 1 \mathrm{WU}$ <br> $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with 3 3/4-digit DYNATEC 9200 <br> digital multimeters <br> Measurement range: <br> incl. power supply for mains operation | 32-2H Z007 |

## Oscilloscope

## Keysight InfiniVision 2000x and 3000x Series



## Highlights

The Keysight InfiniVision can be installed either in 19" systems or alternatively in the 6HU device system Separate installation set available

Technical Data

|  | InfiniVision 2000X Series | InfiniVision 3000X Series |
| :--- | :--- | :--- |
| Analog channels | 8 analog channels |  |
| Digital timing channels | 8 on MSO models or <br> with upgrade DSOX2MSO | 16 on MSO models or <br> with upgrade DSOX2MSO |
| Bandwidth (extendable) | $70,100,200 \mathrm{MHz}$ | $100,200,350,500 \mathrm{MHz}$ |
| Sampling rate | 1 GSa/s per channel, 2 GSa/s with <br> half number of channels (interlea- <br> ved) | $2 \mathrm{GSa/s}$ per channel, 4 GSa/s with <br> half number of channels (interlea- <br> ved) |
| Memory depth | 100 kpts | 2 Mpts as standard, 4 Mpts <br> optional (option DSOX3MemUp) |
| Signal Update rate | 50000 signals/s | 1000000 signals/s |
| Built-in 20 MHz WaveGen <br> function generator | Yes (option DSOX2WAVEGEN) | Yes (option DSOX3WAVEGEN) |
| Search and navigation functions | No | Yes |
| Analysis of serial protocols | No | Yes (several options) |
| Segmentable memory | Yes (option DSOX2SGM) | Yes (option DSOX3SGM) |
| Alarm mask test | Yes (option DSOX2MASK) | Yes (option DSOX3MASK) |
| AutoProbe interface | No | Yes |

Oscilloscope
Keysight InfiniiVision 2000x and 3000x Series

Model variants
InfiniiVision 2000 X-Series

| Type (Keysight) | Description | Bandwidth |
| :--- | :--- | :--- |
| DSOX2002A | Oscilloscope, Digital, 2-Channel | $70 \mathrm{MHz}, 2 \times 1 \mathrm{GS} / \mathrm{s}$ |
| DSOX2004A | Oscilloscope, Digital, 4-Channel | $70 \mathrm{MHz}, 4 \times 1 \mathrm{GS} / \mathrm{s}$ |
| DSOX2012A | Oscilloscope, Digital, 2-Channel | $100 \mathrm{MHz}, 2 \times 1 \mathrm{GS} / \mathrm{s}$ |
| DSOX2014A | Oscilloscope, Digital, 4-Channel | $100 \mathrm{MHz}, 4 \times 1 \mathrm{GS} / \mathrm{s}$ |
| DSOX2022A | Oscilloscope, Digital, 2-Channel | $200 \mathrm{MHz}, 2 \times 1 \mathrm{GS} / \mathrm{s}$ |
| DSOX2024A | Oscilloscope, Digital, 4-Channel | $200 \mathrm{MHz}, 4 \times 1 \mathrm{GS} / \mathrm{s}$ |
| MSOX2002A | Oscilloscope, Mixed, 2-Channel | $70 \mathrm{MHz}, 2 \times 1 \mathrm{GS} / \mathrm{s}$ |
| MSOX2004A | Oscilloscope, Mixed, 4-Channel | $70 \mathrm{MHz}, 4 \times 1 \mathrm{GS} / \mathrm{s}$ |
| MSOX2012A | Oscilloscope, Mixed, 2-Channel | $100 \mathrm{MHz}, 2 \times 1 \mathrm{GS} / \mathrm{s}$ |
| MSOX2014A | Oscilloscope, Mixed, 4-Channel | $100 \mathrm{MHz}, 4 \times 1 \mathrm{GS} / \mathrm{s}$ |
| MSOX2022A | Oscilloscope, Mixed, 2-Channel | $200 \mathrm{MHz}, 2 \times 1 \mathrm{GS} / \mathrm{s}$ |
| MSOX2024A | Oscilloscope, Mixed, 4-Channel | $200 \mathrm{MHz}, 4 \times 1 \mathrm{GS} / \mathrm{s}$ |

InfiniiVision 3000 X-Serie

| Type (Keysight) | Description | Bandwidth |
| :--- | :--- | :--- |
| DSOX3012A | Oscilloscope, Digital, 2-Channel | $100 \mathrm{MHz}, 2 \times 2 \mathrm{GS} / \mathrm{s}$ |
| DSOX3014A | Oscilloscope, Digital, 4-Channel | $100 \mathrm{MHz}, 4 \times 2 \mathrm{GS} / \mathrm{s}$ |
| DSOX3024A | Oscilloscope, Digital, 4-Channel | $200 \mathrm{MHz}, 4 \times 2 \mathrm{GS} / \mathrm{s}$ |
| DSOX3032A | Oscilloscope, Digital, 2-Channel | $350 \mathrm{MHz}, 2 \times 2 \mathrm{GS} / \mathrm{s}$ |
| DSOX3034A | Oscilloscope, Digital, 4-Channel | $350 \mathrm{MHz}, 4 \times 2 \mathrm{GS} / \mathrm{s}$ |
| DSOX3052A | Oscilloscope, Digital, 2-Channel | $500 \mathrm{MHz}, 2 \times 2 \mathrm{GS} / \mathrm{s}$ |
| DSOX3054A | Oscilloscope, Digital, 4-Channel | $500 \mathrm{MHz}, 4 \times 2 \mathrm{GS} / \mathrm{s}$ |
| MSOX3012A | Oscilloscope, Mixed, 2-Channel | $100 \mathrm{MHz}, 2 \times 2 \mathrm{GS} / \mathrm{s}$ |
| MSOX3014A | Oscilloscope, Mixed, 4-Channel | $100 \mathrm{MHz}, 4 \times 2 \mathrm{GS} / \mathrm{s}$ |
| MSOX3024A | Oscilloscope, Mixed, 4-Channel | $200 \mathrm{MHz}, 4 \times 2 \mathrm{GS} / \mathrm{s}$ |
| MSOX3032A | Oscilloscope, Mixed, 2-Channel | $350 \mathrm{MHz}, 2 \times 2 \mathrm{GS} / \mathrm{s}$ |
| MSOX3034A | Oscilloscope, Mixed, 4-Channel | $350 \mathrm{MHz}, 4 \times 2 \mathrm{GS} / \mathrm{s}$ |
| MSOX3052A | Oscilloscope, Mixed, 2-Channel | $500 \mathrm{MHz}, 2 \times 2 \mathrm{GS} / \mathrm{s}$ |
| MSOX3054A | Oscilloscope, Mixed, 4-Channel | $500 \mathrm{MHz}, 4 \times 2 \mathrm{GS} / \mathrm{s}$ |

More technical details can be found in the Keysight data sheets.

| Order number | Description |
| :--- | :--- |
| $35-4$ S.3ZEBS | ES 6HU/4WU installation set for Agilent InfiniVision (Elabo system 6HU) |
| $55-4$ S.3ZEBS | ES 19"/5HU installation set for Agilent InfiniVision (Elabo system Primus One) |
| $35-4$ S.3Zxxxxx | Agilent InfiniVision oscilloscope <br> (please quote the desired model number when ordering) |

[^7]
## Hameg-modular series

As an extension to the System 6 HU measurement and test equipment range, special Subracks are available which can be equipped with "Hameg Module ar System 8000 " test units. The required power supply is part of
he delivery of the individual modul eand will be factory-fitted into the rack when ordered. Further equipment available upon request.

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Plug- in module for Hameg modules <br> 6HU / 2WU <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in module to accept Hameg modules of the Hameg Module ar System 8000 test units 1 illuminated rocker switch <br> to accept one Hameg module <br> to accept one Hameg module s <br> to accept three Hameg module s | 35-4KZ01 <br> 35-4KZ02 <br> 35-4KZ03 |
| Function generator |  | Function generator HM 8030-6 fits plug-in module 35-4K <br> Frequency range $0.05-10 \mathrm{MHz}$ <br> 5-digit digital frequency display. 7-segment LED Operating modes: sinus, square, triangular, freerunning <br> impulse, internally or externally frequency module atable, with and without DC offset trigger output approx. $+5 \mathrm{~V} / \mathrm{TT}$ <br> internal and external wobble adjustment <br> square rise time typ. 15 ns <br> distortion factor max. $0.5 \%$ up to 100 kHz , max. <br> $3 \%$ up to 5 MHz . <br> Optional accessories: <br> BNC measuring cable HZ33, HZ34 <br> 50 Ohm througteut close HZ22 | $35-4 \mathrm{M}$ |
| Digital multimeter | $3-1+0$ | Digital mulitmeter HM 8012 fits plug-in module 35-4K <br> $43 / 4$-digit display with 50000 digits <br> 42 measurement ranges; automatic range switching true measurement of effective values for $A C$ and $A C$ and $D C$ <br> basic precision 0.05 \% <br> max. resolution $10 \mu \mathrm{~V}, 0.01 \mathrm{dBm}, 10 \mathrm{nA}$; 10 <br> mOhm, $0.1^{\circ} \mathrm{C}$ <br> input resistance $>1 \mathrm{GOhm}(0.5 \mathrm{~V}$ and 5 VDC ranges) temperature measurement ${ }^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ in $0.1^{\circ}$ increments RS-232 interface <br> PC software for control and recording measured values incl. set of probes | 35-4L |
| L/C measuring device |  | L/C measuring device HM 8018 fits plug-in module $35-4 \mathrm{~K} 24$ measurement ranges max. resolution: $0.1 \mathrm{pF}, 0.1 \mu \mathrm{H}, 0.01 \mathrm{U}, 0.01 \mu \mathrm{~S}$ 3 measurement frequencies: $160 \mathrm{~Hz}, 1.6 \mathrm{kHz}$, 16 kHz <br> 4 -wire measuring technology basic precision $0.5 \%$ internal bias voltage for Elkos measurement of serial and parallel components Please note: With screwable lab clamps to allow clamping of components from below. Laboratory safety jacks can only be used with an adapter. | $35-4 \mathrm{~N}$ |

Oscilloscope

Technical data

| Description |  |  | Order no. <br> $35-4$ Z Z103- <br> EBS <br> $35-4 \mathrm{P}$ Z103- <br> Module |
| :---: | :---: | :---: | :---: |
| Oscilloscope 6HU / 3WU (+ 1WU) 6HU / 88HP |  | Insert panel digital Real-Time Oscilloscope Tektronix, Type TDS 2002B colour display (1/4 VGA LCD) Digital Real Time (DRT) 60 MHz bandwidth $1 \mathrm{GS} / \mathrm{s}$ sample rate two input channels external triggering edge and video trigger capability triggerview cursor measurement with readout setup and waveform storage auto setup menuedriven measurements USB interface front and backside |  |
| Oscilloscope 6HU / 1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ <br> NET $\qquad$ |  | Insert panel 2-Channel PC-Oscilloscope <br> Brand Metrix MTX1052 <br> Bandwidth: 150 MHz <br> Channels: 2, Class 1 <br> Common ground vertical $2,5 \mathrm{mV} /$ div- $100 \mathrm{~V} /$ <br> div bis 250 iV / div with Y-elongation <br> time bases 35 areas of $1 \mathrm{~ns} /$ div.... $200 \mathrm{~s} /$ div <br> Trigger: Auto, triggert, single-shot <br> Triggerquelle: $\mathrm{CH} 1, \mathrm{CH} 2, \mathrm{CH} 3, \mathrm{CH} 4$, EXT, Netz <br> Type: Flanke, impulse width or delay <br> Mains supply: $100 \ldots . .230 \mathrm{~V} / \mathrm{AC} 47 \ldots 63 \mathrm{~Hz}$ <br> Ethernet-Interface <br> Software <br> Available options: Differential voltage sensors | $\begin{aligned} & 35-4 \mathrm{O} \\ & \mathrm{Z} 102 \end{aligned}$ |
| Oscilloscope 6HU / 1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ <br> NET <br> networkable |  | Insert panel 4-channel PC oscilloscope with Ethernet interface Mfr. Metrix MTX1054 <br> The digital PC oscilloscope is easy to use and is operated completely with the included software Bandwidth: 150 MHz Channels: 4 channels, Class 1 , Common ground vertical: $2.5 \mathrm{mV} /$ div- $100 \mathrm{~V} /$ div, to $250 \mathrm{iV} /$ div with Y-elongation time bases 35 areas of $1 \mathrm{~ns} / \mathrm{div}$ to $200 \mathrm{~s} / \mathrm{div}$ Trigger: Auto, triggered, single-shot Trigger source: $\mathrm{CH} 1, \mathrm{CH} 2, \mathrm{CH} 3, \mathrm{CH} 4, \mathrm{EXT}$, network <br> Type: Shoulder, impulse width or delay power supply: $100-230$ V/AC $47-63 \mathrm{~Hz}$ <br> Available options: Differential voltage sensors | 35-4R Z102 |

## G Electronics

System 6HU

ELABO
euromicron Gruppe

High voltage tester

High voltage tester the applicable safety regulations, be checked by the manufacturer. Further equipment is also presented in our catalogue "Test Instruments"

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| High- voltage tester $6 \mathrm{HU} / 2 \mathrm{WU}$ $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in module for the insulation and voltage proof testing of electrical equipment, machines, components and insulating materials which, according to relevant safety regulations, must be tested with a sinusoidal AC voltage. <br> Operating modes: selectable by keyswitch <br> "Test" overcurrent tripping release <br> "Burn" burning out faults <br> Display: 1 analogue moving coil instrument with double scale, switchable between current and voltage <br> Test voltage: $0 . . .5 \mathrm{kV}$, steplessly adjustable <br> Release current: 0... 100 mA , steplessly <br> adjustable <br> Rated power: 500 VA <br> Short circuit current: > 200 mA <br> Response: < 50 ms <br> Mains supply: $230 \mathrm{~V}+10 \%-5 \% / 50 \mathrm{~Hz} / 600 \mathrm{VA}$ Operating by means of operating devices, located at the front panel | 37-3B |
| High- voltage tester $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HV} / 42 \mathrm{HP}$ |  | Plug-in module with $\mu \mathrm{P}$-controlled high voltage Tester for the voltage proof testing of electrical equipment, machines, components and insulating materials which according to relevant safety regulations, must be tested with a sinusoidal AC voltage. <br> Operating modes: selectable by key switch <br> "Test" overcurrent tripping release <br> "Burn" burnout of faults <br> "Timer" test time setting between 1...99s <br> Display: 1 analogue moving coil instrument with <br> double scale, switchable between current and <br> voltage measurement <br> Test voltage: $0 . .2 .5$ / $0 . . .5 \mathrm{kV}$, steplessly adjustable <br> Release current: 0... 100 mA , steplessly adjustable <br> Rated power: 500 VA <br> Short- circuit current: > 200 mA <br> Response: < 50 ms <br> Mains supply: $230 \mathrm{~V}+10 \%-5 \% / 50 \mathrm{~Hz} / 600 \mathrm{VA}$ <br> Safety function: internally adjustable monitoring of basic current and minimum voltage <br> Operating: by means of operating devices, located at the front panel <br> Interface: for external control by means of floating relay contacts for fault monitoring and external safety circuit <br> A special socket on the front panel enables an additional set of warning lamps to be connected. | 37-3C |

High voltage test equipment accessories

Technical data
\(\left.$$
\begin{array}{|l|l|l|l|}\hline \text { Description } & & \begin{array}{l}\text { Safety test probe with } 2 \mathrm{~m} \text { long cable and spe- } \\
\text { cial plugs suitable for use up to } 6 \mathrm{kV} \mathrm{rms} .\end{array}
$$ \& 94-2 \mathrm{~A} <br>

\hline Safety test probe \& \& 6,10 and 15 \mathrm{~m} available upon request\end{array}\right]\)| Warning- lamp set to VDE 0104 with red and |
| :--- |
| green warning lamps, |
| special plug with $2,5 \mathrm{~m}$ lead |$\quad 94-2 \mathrm{C}$.

# G Electronics <br> G3 System 6HU 

ELABO
euromicron Gruppe

Combination test devices

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Isolation- and saftey tester $6 \mathrm{HU} / 2 \mathrm{WU}$ $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug- in module with two safety testing instruments: <br> 1 protective earth conductor <br> measuring device 90-2A <br> Test current: 10... 25 A <br> 1 analogue divider that calculates and displays the resistance of the <br> protective earth conductor and its connections from the voltage drop and the momentary value of the current flowing Measurement range: $0 . . .0 .3 \mathrm{Ohm}$ <br> 1 spindle trimming potentiometer <br> 1 push- button enables the maximum permitted value of resistance to be set. If this value is exceeded during the measurement, a visual fault alarm is given. There is also a fault alarm given for too low or too high preset test currents (limit values are set inside the module ) 1 earth safety socket <br> 2 screw terminals <br> 2 safety lab terminals <br> 1 DIN- jack for PE-test probe 94-4S <br> 1 illuminated rocker switch <br> 1 insulation resistance tester 90-2E <br> Test voltage: 500 V DC, stabilization bysed <br> Short circuit: maximum 3 mA <br> (no further safety measures are <br> necessary for the operator) <br> 1 analogue divider with highly accurate <br> measurement of resistance. <br> The resistance is displayed at two linear scales <br> of the measurement instrument <br> 0 ... 10 MOhm <br> $0 . .100 \mathrm{MOhm}$ <br> 1 spindle trimming potentiometer, located at the front panel, for the setting of a bottom limit value of the insulation resistance. If a value below this limit is recorded during the test, a visual and an audible fault alarm are given. <br> 1 earth safety socket <br> 2 safety lab terminals <br> 1 illuminated rocker switch | 37-3G |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Safety tester VDE 0701/02 $6 \mathrm{HU} / 2 \mathrm{WU}$ $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Safety tester according to VDE 0701/0702 <br> Measuring functions: <br> - Protective conductor resistance <br> - Isulation resistance <br> - Substitute leakage current <br> - Protective conductor and touch current <br> - Power, voltage, current, <br> power factor, frequency <br> Tester Information <br> Memory for app. 50,000 equipment tests (SD card 2 GB) <br> - Intuitive operator guidance <br> - Manual mode, automatic mode, test series mode <br> -Test for the protection of the <br> tester against defect specimens <br> -Test o.k. or test not o.k. text message on screen <br> -Test lead compensation <br> - USB interface - for sending measured data <br> - RS 232 interface - for connecting optional <br> barcode scanner <br> - included in delivery: Standard PC software for <br> log print outs <br> Technical Data: <br> Protective conductor resistance $0.1 \ldots .2 .00 \mathrm{hm}$ <br> Test current/voltage $>200 \mathrm{~mA}$ / $>4$ VDC <br> Insulation resistance $0.2 \ldots 20 \mathrm{MOhm}$ <br> Test voltage/current >=500 VDC/>1mA <br> Substitute leakage current $0.02 \ldots 20 \mathrm{~mA}$ <br> Test voltage approx. 230 VAC <br> Protective conductor current $0.25 \ldots 20 \mathrm{~mA}$ <br> Touch current 0.1...2mA <br> Measuring principle direct or as differential <br> current <br> Power 0.. . 3.7kVA <br> Voltage $195 \ldots . .250 \mathrm{~V}$ <br> Power factor 0 cap... $1 . .0$ ind. <br> Power supply $230 \mathrm{~V}+10 \% /-15 \% 50 \mathrm{~Hz}$ <br> $W=229 \mathrm{~mm}, \mathrm{H}=266 \mathrm{~mm}$ | 37-2M |

## Motor test bay 120 kVA

The Elabo motor test bay is the ideal test facility for electrical engineering applications and for industrial electical workshops. engineers, makes it terfect for the safe and proper handling of continually changing testing requirements. Combined with the



An Elabo motor test station comprises the following
Table superstructure with high-current and plug-in part
-phase transformer unit
3-phase transformer unit
Plug-in units of the 6 HU system
Work table with floor cabinet.
The body of the table superstructure housing is made from 19 mm laminate and coated on both sides with melamine resin in basalt gray. Removable rear wall of 2 mm sheet aluminum, body powdercoated. Mains connection and connection of the connecting lead for the on-site regulating transformer on labeled series terminal strip.

## High-current part:

he high-current part contains all of the control and safety elements necessary for operation as well as the protective combinations or the selectable power and voltage ranges. The installed large analog current measurement devices are equipped with linear scales. Overlapping measuring ranges make optimum resolution possible. Parallel to this, all of the important network parameters can be measured with the CVM power analyzer with the 3 -fold digital display.
ther measuring and testing equipment:
Depending on the application, a variety of measuring and testing devices can be additionally integrated into the design for xale high-voltage test aquir

Versatile use:
The combination of high-current unit, 3-phase transformer unit and the module ar plug-in field render possible versatile tests of motors, transformers and devices using small and large capacity
Check of electrical machines of all types
Stator and rotor testing even when uninstalled
Heating of windings for drying or impregnation
Error Detection in the event of inter-turn short-circuit
Power and voltage supply systems for 1 -phase 3 -ph
Carrying out safety tests according to existing DIN standards on electrical components of all kinds

Motor test bay- high current section


Technical data:

Mains connection:
Main switch:
Protection:
Control circuit:
Current display:
Current Ranges:
Voltage Ranges:
/ N P PE ~ 50 Hz 400 V on labeled terminal block
Key-operated switch, usable as emergency stop switch at the same time Motor protection circuit breaker with undervoltage trip in the range from $160 \ldots 200 \mathrm{~A}$
All control circuits are protected by triple automatic circuit breakers.
moving coil ammeters $144 \times 144 \mathrm{~mm}$ with measurement rectifier and linearer double scale
, $5 \mathrm{~A}, 5 \mathrm{~A}, 15 \mathrm{~A}, 50 \mathrm{~A}, 100 \mathrm{~A}$
$3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} / 0 . . .450 \mathrm{~V}$
II $3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} / 0 . . .690 \mathrm{~V}$
each range up to 100 A , transient 150 A
Multipurpose display:- Microprocessor contolled analyser with 16 mm high independend displays. Up to 30 parameters can be selected, e.g. Simultaneous measurement of the voltage of all phases Simultaneous measurement of curent flows of all phases (Wive power measurement (W) Reactive power measm. (Var kap, Var ina Apparent power measurement (NA) - Frequency (Hz)

CEE-Socket 3-pole 16 A, blue
3 CEE-Sockets 5-pole 16, 32, 63 A, red
8 high- current lab terminals, arranged in the terminal board
1 Star-Delta reverse switch 100 A with zero position
DC-Power supply: I... ca. 150 V
$1 \quad 0 . . . c a .300 \mathrm{~V}$
Residual ripple of DC 18 \%
Residual ripple of DC $18 \%$
Moving-coil voltmeter $144 \times 144 \mathrm{~mm}$ with double scale, 100 V , sdouble scale 500 V
Moving-coil voltmeter $144 \times 144 \mathrm{~mm}$ with double scale, 100 V , sdouble scale 500
SILIZED fuse 100 A internally

Motor test bay transformer aggregat 3-phase


## Pneumatics

Technical data:

| Power rating: | 120 kVA |
| :---: | :---: |
| Input voltage: | $3 / \mathrm{N} / \mathrm{PE} 400 \mathrm{VAC} / 50 \mathrm{~Hz}$ |
| Output voltage: | 13 ~ 0...133/230V |
|  | $113 \sim 0 . .260 / 450 \mathrm{~V}$ |
|  | III $3 \sim 0 . . .400 / 690 \mathrm{~V}$ |
| Current output: | maximum 100 A within each voltage range, transient 150 A |
| Cooling: | Natural air cooling |
| Housing: | steel sheet |
| Degree of protection: | \|P 20 |
| Drive: | 24 V DC with speed control by means of 10-turn potentiometer |
| Actuating time: | approx. $10 \ldots 80 \mathrm{~s}$, steplessly adjustable |
| Weight: | ca. 1200 kg |
| Ambient temperature: | $40^{\circ} \mathrm{C}$ |
| Dimensions: | $W=$ approx. 1200 mm , |
|  | $\mathrm{D}=$ approx. 1000 mm , |
|  | $H=$ approx. 1800 mm |

3- phase variable column autotransformer with separate windings according to VDE 0552 part 5 for heavy- duty operation.
The transformer has to be installed separately from the bench and to be connected by means or flexible cables. Connection to terminal block fitted
The unit is tailored to the individual customer's order

## Pneumatics compressor, vacuum pump

labo has a compreenensive range of pressure supplies and vacuum generaturis, hisis is supplemented with est and measuremen equipment. The diversity of pneumatic equipment for System 6 HU slide-in units can be expanded by using Subrack $31-4 \mathrm{~A}$ or 31-4B to take supply units from the System $3 H$ U eurocassettes. Special pressure ranges are available for the slide-in pneumatic

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Oil-free compressor $6 \mathrm{HU} / 4 \mathrm{WU}$ $6 \mathrm{HU} / 88 \mathrm{HP}$ |  | Plug-in panel module with non lubrication compressor to generate shop air. | 35-6R |
| Oil-free vacuum pump $6 \mathrm{HU} / 4 \mathrm{WU}$ $6 \mathrm{HU} / 88 \mathrm{HP}$ |  | Plug-in panel module with non- lubrication vacuum pump <br> Capacity: 32 //min <br> Generated vacuum: approx. 850 mbar <br> Range: approx.. 850... 133 mbar (ca. 700 ... 100 Torr) <br> Accuracy: ca. 13 mbar (10 Torr) <br> Mains supply: $230 \mathrm{~V} / 50 \mathrm{~Hz}$ <br> Sound pressure level: ca. 57 dB (A) <br> 1 Manometer <br> 1 coupling NW5 <br> 1 quick connector | 35-7M |

Pneumatics compressor, vacuum pump

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Pneumatic supply unit $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in modue with sompressed air supply module <br> 1 Flange- mounted pressure gauge 0 ... 10 bar <br> 1 Pressure regulator 0,5... 10 bar <br> 3 couplings NW5 <br> 2 Quick connectors <br> 1 connecting hose | 35-6A |
| Pneumatic supply unit $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HV} / 42 \mathrm{HP}$ |  | Plug-in modue with compressed air supply module <br> 1 flange-mounted pressure gauge $0,5 \ldots 10$ bar with water separator and oil misting unit <br> 1 Pressure regulator <br> 3 couplings NW5 <br> 2 Quick connectors <br> 1 connecting hose | 35-6B |
| Pneumatic supply unit $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in module with vacuum precision gauge <br> 1 analogue precision gauge of quality class 0.6 , range $0 \ldots-1000 \mathrm{mbar}$ <br> 1 Precision pressure regulator with good adjustment accuracy and reproducibility for a correct setting of the output vacuum <br> 1 coupling NW5 <br> 1 quick connector <br> Vacuum has to be provided! | 35-6P |
| Pneumatic measurement and test unit <br> $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in module with pressure gauge to be used as a regulator (for pressure setting) or as an external measuring instrument and for leak testing. Input pressure maximum 12 bar. precision manometer 0... 1 bar, class 0.6 precision pressure regulator $3 / 2$ valve to perform leak testing $13 / 2$ valve to switch over from internal measurements to external use 2 self sealing couplings NW5 1 Quick connectors Pressure to be supplied on site! <br> 0... $1,0 \mathrm{bar}$ <br> 0...2,5 bar <br> $0 . . .6,0$ bar <br> $0 . . .10,0$ bar | 35-6C Z01 <br> 35-6C Z02 <br> 35-6C Z03 <br> 35-6C Z04 |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Pneumatic measurement and test unit <br> $6 \mathrm{HU} / 2 \mathrm{WU}$ <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in module with pressure gauge with digital indicator to be used as a regulator (for pressure setting) or as an external measuring instrument and for leak testing. Output pressure can be set very precisely. Input pressure maximum 12 bar. <br> 1 digital display $41 / 2$ digit <br> piezo- resistive precision transmitter, class 0.15 <br> precision pressure regulator <br> $3 / 2$ valve to perform leak testing <br> $13 / 2$ valve to switch over from internal <br> measurements to external use <br> 2 self sealing couplings NW5 <br> 1 Quick connectors <br> Pressure to be supplied on site! |  |
|  |  | 0... 250 mbar | 35-6G Z01 |
|  |  | $0 . .11$ bar | 35-6G Z02 |
|  |  | 0... 2 bar | 35-6G Z03 |
|  |  | 0... 4 bar | 35-6G Z04 |
|  |  | 0...6 bar | 35-6G Z05 |
|  |  | 0...10 bar | 35-6G Z06 |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Pneumatic measurement module <br> 6HU / 4WU <br> $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in module to check pneumatic or electropneumatic control components and transmitters. Input pressure maximum 12 bar. <br> 3 analogue gauges, class 1.0 <br> 0... 1 bar, $0 \ldots .4$ bar, $0 . . .6$ bar <br> 1 Pressure gauge $0 . . .10$ bar to check input pressure <br> 3 precision pressure regulators <br> $3 \times 2 / 2$-way valves to select output couplings <br> 5 self sealing quick couplings NW5 <br> 3 Quick connectors <br> 0... $1 / 2,5 / 6$ bar <br> 0...2,5/4/6 bar <br> 0... $1 / 4$ / 6 bar <br> Other ranges available on request. | $\begin{aligned} & 35-6 \mathrm{~K} \text { Z01 } \\ & 35-6 \mathrm{~K} \text { Z02 } \\ & 35-6 \mathrm{~K} \text { Z03 } \end{aligned}$ |
| Pneumatic measurement module <br> 6HU/4WU 6HU / 42HP |  | Plug-in module to check pneumatic or electropneumatic control components and transmitters. Input pressure maximum 12 bar. Input pressure maximum 12 bar. <br> 3 small pressure gauge $0 . . .10$ bar to check input pressure $0 . . .1$ bar, $0 . . .4$ bar, $0 . . .6$ bar <br> 1 Pressure gauge $0 \ldots 10$ bar to check input pressure <br> precision pressure regulators <br> $3 \times 2 / 2$-way valves to select output couplings <br> 5 self sealing quick couplings NW5 <br> 3 Quick connectors <br> 1 additional DC supply with output voltage $2 \times 24 \mathrm{~V}, 4$ A total output current (for both outputs), residual ripple $48 \%$. <br> 2 switches <br> $2 \times 2$ safety lab terminals <br> 1 circuit breaker <br> 1 Illuminated rocker switch <br> 0... $1 / 2,5 / 6$ bar <br> 0...2,5/4/6 bar <br> 0... 1 / 4 / 6 bar <br> Other pressure ranges and output voltage ranges available on request. | $\begin{aligned} & 35-6 \mathrm{~L} \text { Z01 } \\ & 35-6 \mathrm{Z} 02 \\ & 35-6 \mathrm{~L} 03 \end{aligned}$ |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Connector hose 6/4 mm |  | single Quick connectors NW5, 10 bar, 500 mm single Quick connectors NW5, 10 bar, 1000 mm single Quick connectors NW5, 10 bar, 2000 mm <br> single Quick connectors NW2,5, 10 bar, 500 mm single Quick connectors NW2,5, 10 bar, 1000 mm single Quick connectors NW2,5, 10 bar, 2000 mm | $\begin{aligned} & 48-5 A \\ & 48-5 B \\ & 48-5 C \\ & 48-5 P \\ & 48-5 Q \\ & 48-5 R \end{aligned}$ |
| Manometer connectors |  | $\begin{aligned} & \text { R } 1 / 8^{\prime \prime} \\ & \text { R 1/4" } \\ & \text { R } 3 / 8^{\prime \prime} \\ & \text { R } 1 / 2^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 48-5 \mathrm{H} \\ & 48-5 \mathrm{~J} \\ & 48-5 \mathrm{~K} \\ & 48-5 \mathrm{~L} \end{aligned}$ |
| High pressure hose DN4 |  | Minimess-connections, 400 bar, 630 mm Minimess-connections, $400 \mathrm{bar}, 1000 \mathrm{~mm}$ | $\begin{aligned} & 48-5 D \\ & 48-5 E \end{aligned}$ |
| Plug nipples for single-handed rapid-action connectors | * * | NW5 for coupling hose $6 / 4 \mathrm{~mm}$ NW2,5 for coupling hose 6/4 mm | $\begin{aligned} & 48-5 \mathrm{M} \\ & 48-5 \mathrm{~N} \end{aligned}$ |
| 10 bar air supply for bench rack plug-in modules |  | Coupling type 3 Coupling type 5 | $\begin{aligned} & \text { 48-5SZ } \\ & 48-5 T Z \end{aligned}$ |

## Decades \& logades

Decade, logade

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| $R$-decade 6HU/1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ | 再雷 | Insert panel with 6- decade resistance setting <br> Range: 1 Ohm...999,999 kOhm <br> Resolution:1 Ohm <br> Tolerance: 10 hm ... $9 \mathrm{Ohm}<10 \%+0,9 \mathrm{hm}$ 10 Ohm... 99 Ohm < $2 \%+0,9 \mathrm{Ohm}$ 100 Ohm... $999 \mathrm{Ohm}<1 \%+0,9 \mathrm{Ohm}$ $\geq 1000 \mathrm{Ohm}<1 \%$ <br> Load: maximum 1 W <br> Voltage: maximum 250 V AC / maximum 50 V DC <br> 6 preset switches to set resistance values <br> 2 Safety lab terminals | 32-2A |
| C-decade 6HU / 1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with 5 C -decade setting <br> Range: $100 \mathrm{pF} . .9,9999 \mu \mathrm{~F}$ <br> Resolution:100 pF <br> Tolerance: <br> $100 \mathrm{pF} . . .1000 \mathrm{pF}: \pm 10 \%$ type $\pm 13 \%$ max. <br> 100 pF... 9,9 nF: $\pm 5 \%$ type $\pm 8 \%$ max. <br> $10 \mathrm{nF} . . .99,9 \mathrm{nF}: \pm 3 \%$ type $\pm 5 \%$ max. <br> $1 \mu \mathrm{~F} . .9,99 \mu \mathrm{~F}: \pm 2 \%$ type $\pm 5 \%$ max. <br> Operating voltage: maximum 50 V DC | 32-2B |
| Inductive logade 6HU / 1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with logarithmic interval <br> inductances $1 \mu \mathrm{H}$... $4700 \mu \mathrm{H}$ <br> Ranges: 23 values between $1 \mu \mathrm{H} \ldots 4700 \mu \mathrm{H}$ are provided <br> Inaccuracy: $1 \mu \mathrm{H} . . .33 \mathrm{H} \pm 10 \%$ <br> $47 \mu \mathrm{H} . . .4700 \mu \mathrm{H} \pm 5 \%$ <br> Operating voltage: maximum 100 V DC <br> Operating voltage: maximum 63 mA <br> protected by fine wire fuse <br> 1 rotary knob for setting required values <br> 2 Safety lab terminals | 32-2C |

Load resistances

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Load resistances $6 \mathrm{HU} / 2 \mathrm{WU}$ $6 \mathrm{HV} / 42 \mathrm{HP}$ |  | Plug-in module with <br> 6 adjustable load resistance <br> 0... 100 \% <br> Standard values: $10 \mathrm{Ohm}, 47 \mathrm{Ohm}$, <br> $100 \mathrm{Ohm}, 470 \mathrm{Ohm}, 1 \mathrm{kOhm}, 10 \mathrm{kOhm}$ <br> Rating: maximum 50 W ; <br> other values on request <br> 6 Fine wire fuses <br> $6 \times 3$ Safety lab terminals | 33-0F |
| Load resistances $6 \mathrm{HU} / 2 \mathrm{WU}$ $6 \mathrm{HU} / 42 \mathrm{HP}$ |  | Plug-in module with <br> 2 Load resistance, stepless adjustable $0 . . .100 \%$; Standard values: $10 \mathrm{Ohm}, 1 \mathrm{kOhm}$ Load: maximum 250 W; other values on request <br> 2 Fine wire fuses <br> $2 \times 3$ Safety lab terminals | 33-0G |

# G Electronics 

System 6HU

ELABO
euromicron Gruppe

## Interfaces

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Antenna socket $6 \mathrm{HU} / 1 \mathrm{WU}$ $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with antenna socket <br> 2 Schuko sockets <br> 1 antenna socket TV, SAT, Radio | 32-1K |
| Selectable pole 6HU/1WU $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with 15 non-wired laboratory safety sockets as selectable pole with labelling 1 to 15 | 32-1U |
| Selectable pole and emergency-off button $6 \mathrm{HU} / 1 \mathrm{WU}$ $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with <br> 8 laboratory safety sockets as selectable pole with labelling 1... 8 <br> 1 non-wired emergency-off mushroom button with snap-on contact and signal ring | 32-10 |
| Multiple interface pane $6 \mathrm{HU} / 1 \mathrm{WU}$ <br> $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with <br> 2 USB connectors, type A female <br> 2 PS/2 Mini-DIN 6-pin connectors, female <br> 1 Sub-D connector 9-pole male <br> 1 Sub-D connector 15 -pole HD female each with approx. 2 m connection cable and mating connector <br> 2 jack sockets, 3.5 mm stereo with approx. 3 m connection cable and mating connector <br> 2 RJ45 socket 8-pin, pluggable on both sides | 32-1U Z001 |

## Soldering station

## Soldering station

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Soldering station $6 \mathrm{HU} / 1 \mathrm{WU}$ $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with temperature-regulated soldering station 80W <br> ideal for lead-free soldering, RoHS-compliant Temperature range: $150 \ldots 400^{\circ} \mathrm{C}$, continuously variable and electronically regulated <br> 1 Schuko Socket <br> 1 Soldering iron 810 CDJ <br> 1 Stand A41 <br> 1 Illuminated rocker switch | 32-1W |
| Soldering station $6 \mathrm{HU} / 1 \mathrm{WU}$ $6 \mathrm{HU} / 21 \mathrm{HP}$ |  | Insert panel with electronically regulated soldering station 80 W , manufactured by Weller, ideal for lead-free soldering, RoHS-compliant Temperature range: up to $450^{\circ} \mathrm{C}$, continuously variable and electronically regulated <br> 1 LED for regular visual inspection <br> 1 Schuko Socket <br> 1 Soldering iron <br> 1 Stand <br> 1 Illuminated rocker switch | 32-1Y |

## Housing und accessories

Blank plate, push-in shelf

Technical data

| Description |  | Order no. |
| :--- | :--- | :--- | :--- |
| Blank panel <br> 6HU / 1WU <br> 6HU / 21 HP |  | $31-1 \mathrm{~A}$ |

Subrack

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Subrack <br> 6HU / 2WU <br> $6 \mathrm{HU} / 48 \mathrm{HP}$ |  | Subrack for holding insert panels or eurocassettes $3 \mathrm{HU} / 2 \times 36 \mathrm{HP}$ | 31-4A |
| Subrack 6HU/4WU |  | Subrack for holding insert panels or eurocassettes $3 \mathrm{HU} / 2 \times 84 \mathrm{HP}$ | 31-4B |
| Subrack <br> Primus One <br> $6 \mathrm{HU} / 96 \mathrm{HP}$ |  | Subrack for holding insert panels or eurocassettes $3 \mathrm{HU} / 2 \times 84 \mathrm{HP}$ | 31-4B.K |



## Housing

Housings made of steel plating are powder-coated in light grey and sometimes equipped with two fold-away side handles and fou Version complete with guide rails and 2 m connection is mounted on the interior side of the perforated rear wall of the housing.

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Support housing |  | Housing made of steel plating with space for 2 WU with 2 carrying grips and 4 rubber feet Connection cable with Schuko plug $W=247 \mathrm{~mm}, \mathrm{D}=340 \mathrm{~mm}, \mathrm{H}=300 \mathrm{~mm}$ <br> Connection cable with Cekon plug for 3-phase alternating current $\mathrm{W}=247 \mathrm{~mm}, \mathrm{D}=340 \mathrm{~mm}, \mathrm{H}=300 \mathrm{~mm}$ | 30-6A Z01 <br> 30-6A Z03 |
| Support housing |  | Housing made of steel plating with space for 4WU with 2 carrying grips and 4 rubber feet Connection cable with Schuko plug $W=483 \mathrm{~mm}, \mathrm{D}=340 \mathrm{~mm}, \mathrm{H}=300 \mathrm{~mm}$ <br> Connection cable with Cekon plug for 3 -phase alternating current $W=483 \mathrm{~mm}, \mathrm{D}=340 \mathrm{~mm}, \mathrm{H}=300 \mathrm{~mm}$ | $\begin{aligned} & 30-6 \mathrm{C} \text { Z01 } \\ & 30-6 \mathrm{C} \text { Z03 } \end{aligned}$ |
| Multiple housing |  | Housing made of steel plating with space for 6WU, <br> 4 rubber feet <br> Connection cable with Schuko plug $W=755 \mathrm{~mm}, \mathrm{D}=315 \mathrm{~mm}, \mathrm{H}=320 \mathrm{~mm}$ <br> Connection cable with Cekon plug for 3 -phase alternating current $\mathrm{W}=755 \mathrm{~mm}, \mathrm{D}=315 \mathrm{~mm}, \mathrm{H}=320 \mathrm{~mm}$ | 30-5A Z01 <br> 30-5A Z03 |
| Multiple housing |  | Housing made of steel plating with space for $2 \times 6 \mathrm{WU}, 4$ rubber feet Connection cable with Schuko plug $W=755 \mathrm{~mm}, \mathrm{D}=315 \mathrm{~mm}, \mathrm{H}=320 \mathrm{~mm}$ <br> Connection cable with Cekon plug for 3 -phase alternating current $W=755 \mathrm{~mm}, \mathrm{D}=315 \mathrm{~mm}, \mathrm{H}=320 \mathrm{~mm}$ | 30-5B Z01 <br> 30-5B Z03 |

## G Electronics

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# G Electronics 

Fuse and protection modules

Technical data

| Description |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Earth-leakage circuit <br> breaker <br> Alternating current, Type A | Insert panel 18HP, <br> Shock-proof protection system <br> $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ | Order no. |

Fuse and protection modules

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Fuse and switch unit |  | Insert panel 36HP <br> Fuse and switch unit single-phase <br> with key-operated button to release two circuits <br> Position I "Group I" <br> Position II "Group II" <br> 1/N/PE~50 Hz 230V 16 A <br> Equipment: <br> 1 circuit breaker single-pole C 16 A <br> 1 key-operated button I/O/II,black <br> 1 Off button <br> 2 protectors <br> 1 exterior control indicator lamp <br> 1 signal lamp "Group I" <br> 1 signal lamp "Group II" <br> including 2 wiring harness <br> $W=182.9 \mathrm{~mm}, \mathrm{H}=128.5 \mathrm{~mm}$ | A3-0 V |
| Fuse and switch unit |  | Insert panel 36HP, <br> Fuse and switch unit single-phase with key-operated button to release two circuits <br> Position I "Group I" <br> Position II "Group II" <br> $3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 400 \mathrm{~V} 16 \mathrm{~A}$ <br> Equipment: <br> 1 circuit breaker single-pole C 16 A <br> 1 key-operated button I/O/II, black <br> 1 Off button <br> 2 protectors <br> 3 exterior control indicator lamp <br> 1 signal lamp Group I <br> 1 signal lamp Group II <br> including 2 wiring harness $\mathrm{W}=182.9 \mathrm{~mm}, \mathrm{H}=128.5 \mathrm{~mm}$ | A3-0W |
| Fuse and switch unit <br> NET <br> neworkable <br> Fits into 3 HU alu-channel | $\begin{array}{ll} \mathbf{z} & 0 \\ \hline \end{array}$ | Insert panel $36 \mathrm{HP}+12 \mathrm{HP}$, <br> Fuse- and switch-unit, single-phase release of voltages by integrated Ethernet module. <br> Position Group I "green" <br> Position Group II „yellow" <br> 1/N/PE~ 50Hz 230 V 16 A <br> Equipment: <br> 1 circuit breaker single-pole C 16 A <br> 1 key-operated button I/0/II, black <br> Off button <br> 2 protectors <br> 3 exterior control indicator lamp <br> 1 signal lamp "experimental equipment is released" <br> 1 signal lamp Group I <br> 1 signal lamp Group II <br> includinf Ethernet-Interface | A3-0R |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Fuse and switch unit <br> NET $\square$ <br> Fits into 3HU <br> networkable alu-channel | $\begin{aligned} & 0 \\ & \text { ans } 0 \\ & \hline \end{aligned}$ | Insert panel $36 \mathrm{HP}+12 \mathrm{HP}$, <br> Fuse and switch unit three-phase with key-operated button to release two current circuits via Ethernet nodes or via key-operated button. <br> Release \| "low voltage" <br> Release II "line current" <br> Equipment: <br> 1 circuit breaker 3-pole C 16 A, <br> 2 protectors, 3 relays, <br> 3 exterior control indicator lamps, <br> 1 signal lamp "Group I", <br> 1 signal lamp "Group II" <br> 1 Interface for Software control via Ethernet <br> (Software not included) <br> Incl. second power cable harness. $\mathrm{W}=182.9 \mathrm{~mm}, \mathrm{H}=128.5 \mathrm{~mm}$ <br> Delivery will be including on blank panel A3-9D. | A3-0S |
| Fuse and switch unit <br> NET <br> networkable alu-channel | $\begin{gathered} 0 \\ 0.0 \end{gathered}$ | Insert panel $48 \mathrm{HP}+12 \mathrm{HP}$, <br> Fuse and switch unit 3-phase, <br> Release of voltages via Ethernet nodes <br> Position Group I "green" <br> Position Group II ,yellow" <br> Position Group III „red" <br> 3/N/PE~ 50Hz 400 V 16 A <br> Equipment: <br> 1 Circuit breaker 3 pole C 16 A <br> 1 Key-operated switch I/0/II, black <br> 1 Key switch button I/O, black (Group III) <br> 1 Off-button red <br> 3 Contactors <br> 3 External conductor indicator lamp <br> 1 Signal lamp "Group I" <br> 1 Signal lamp "Group II" <br> 1 Signal lamp "Group II" <br> Including 2. and 3. Power cable harness <br> Including Ethernet-Interface | A3-0T |
| EMERGENCY OFF switch |  | Insert panel 3HU / 12 HP <br> EMERGENCY OFF switch for the training area <br> Equipment: <br> 1 Emergency off switch with detent and yellow signal ring with 1 break contact and 1 shutter contact. <br> see A3-1A <br> but with key-emergency off | A3-1A A3-1B |

## AC Power supply 1-/ 3- phase, fixed

AC- Power supply 1- phase, fixed

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Laboratory safety socket | $\frac{\gamma^{\circ 2}}{8}$ | Insert panel 12HP, <br> Mains supply, <br> 1/N/PE ~ 50 Hz <br> Equipment <br> 3 Safety lab terminals (L1, N, PE) <br> Optional power switch available <br> $W=60,4 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-1W |
| Floating alternating current voltage |  | Insert panel 36HP <br> Alternating current voltage floating $230 \mathrm{~V} / 110 \mathrm{VA}$ Equipment: <br> 1 Illuminated rocker switch, <br> 1 thermic-magnetic equipment-overload switch <br> 1 transformer with separated coils <br> 1 socket without ground contact $\mathrm{W}=182,9 \mathrm{~mm}, \mathrm{H}=196 \mathrm{~mm}$ | A3-2B |
| Floating alternating current voltage |  | Cassette 36HP, <br> Alternating current voltage floating $230 \mathrm{~V} / 230 \mathrm{VA}$ and mains supply $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ <br> Equipment: <br> 2 Schuko sockets <br> 1 Illuminated rocker switch <br> 1 transformer with separated coils <br> 1 Thermic-magnetic circuit breaker TMT1A <br> 1 Rocker Switch <br> 1 Shock-proof socket <br> (for floating voltage) <br> 2 Safety lab terminals $W=182,9 \mathrm{~mm}, \mathrm{H}=196 \mathrm{~mm}$ | A3-2C |
| Schuko sockets |  | Insert panel 24HP, <br> Equipment: <br> 4 Schuko sockets <br> Optional power switch available $W=121,9 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ <br> As A3-1L <br> but with green marking | A3-1L <br> A3-1L Z001 |
| Schuko sockets |  | Insert panel 12HP, <br> Equipment: <br> 2 Schuko sockets $W=60,9 \mathrm{~mm}, H=128,5 \mathrm{~mm}$ <br> As A3-1J <br> but with green marking | A3-1 J <br> A3-1J Z001 |

AC- Power supply 1 / 3- phase, fixed

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Low voltages <br> Alternating current floating | $\begin{aligned} & 6:+\infty \\ & 0: \\ & 00 \\ & 0 \end{aligned}$ | Eurocassette 24HP <br> AC low voltage floating output with green strip at the lower edge to indicate low voltage $6,12,18,24,30,36,42 \mathrm{~V} / 3 \mathrm{~A}$ and rectifier $W=121,9 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-3B |
| Low voltages <br> Alternating current floating |  | Insert panel 36HP, <br> Low AC voltage, floating 2, 4, 6, 8, 10, $12 \mathrm{~V} / 10 \mathrm{~A}$ <br> Equipment: <br> 1 illuminated rocker switch <br> 3 thermic- magnetic circuit breakers <br> 4 safety lab terminals $W=182,9 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-2D |
| Laboratory safety socket |  | Insert panel 12HP, <br> Mains voltage 3ph AC 50Hz 230 / 400 V <br> 16 A to safety lab terminals. <br> Equipment: <br> 5 Safety lab terminals <br> (L1, L2, L3, N, PE) <br> Optional power switch available $W=60,4 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-1X |
| CEE Socket |  | Insert panel 24HP, <br> Mains supply <br> 3/N/PE~ 50Hz 230 / 400 V 16 A an <br> 1 CEEE-Socket <br> Optional power switch available $W=121,6 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-1T |

Technical data

## AC Power supply, adjustable

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| CEE Socket <br> 5- pin <br>  <br> Fits into 3 HU <br> alu-channel |  | Insert panel 24HP <br> Mains supply <br> 3/N/PE ~ 50 Hz 230 / 400 V 16 A <br> Equipment: <br> 1 CEE-Socket 5p400 V16 A <br> 5 Safety lab terminals (L1, L2, L3, N, PE) $W=121,6 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-1U |
| CEE Socket |  | Insert panel 24HP <br> Mains supply $3 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 400 \mathrm{~V} 32 \mathrm{~A}$ <br> to CEE Socket <br> Equipment: <br> 1 CEE-Socket 5p400 V/32A (red) wired to terminal strip $W=121,9 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-1V |
| Low voltages <br> Three-phase current, floating |  | Insert panel 60HP, <br> Three-phase current power supply AC 3~10/17, <br> $3 V 5 A$, floating <br> Equipment: <br> 1 Rotary switch I/O, 3 Incandescent bulbs 1 Three-phase current transformer with fine wire fuse <br> 3 Thermic-magnetic circuit breakers TMT5A <br> 4 Safety lab terminals $W=304,8 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-2E |

AC- Power supply 1- phase, adjustable

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| DC/AC voltage |  | Eurocassette 52 HP, <br> $A C-$ and $D C$ voltage floating, <br> $0 . .260 \mathrm{~V} \mathrm{eff} / 3 \mathrm{~A}(\mathrm{AC} / \mathrm{DC})$ or $0 . . .50 \mathrm{~V}$ eff / <br> $10 \mathrm{~A}(\mathrm{AC} / \mathrm{DC})$ with analog display instruments <br> Residual ripple at DC ca. $48 \%$ $W=264,2 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-3P |
| Smart AC-constanter floating <br> NET <br> networkable |  | Eurocassette 66 HP , <br> AC-Constant with floating AC/Voltage <br> $2 \ldots 260 \mathrm{~V} / 2 \mathrm{~A}$ electromechanical stabilization <br> by following controller and setpoint decoder <br> Two lighted LCD-Display Display of voltage, current und power. 4 programmable Voltage value. Output limitation, password-protected <br> Including Ethernet and USB Interface. $W=335,2 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-2S |
| DC/AC voltage |  | Eurocassette 36 HP , <br> AC $0 . .260 \mathrm{~V} / 2 \mathrm{~A}$ <br> not floating <br> Small AC floating <br> $0 . .6 \mathrm{~V} / 15 \mathrm{~A}, 0 . .18 \mathrm{~V} / 16 \mathrm{~A}$ und $0 . .42 \mathrm{~V} / 3 \mathrm{~A}$ <br> Separate bridge rectifier (B2) $W=182,9 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-3F |

## DC Power supply, fixed

G4.4

DC- Power supply, fixed

## DC Power supply, adjustable

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Switching power supply $5 \mathrm{~V} / 5 \mathrm{~A}$ |  | Insert panel 24HP, <br> Switching power supply with clocked output voltage $5 \mathrm{~V} / 5 \mathrm{~A}$, <br> Outputs on 2 Safety lab terminals <br> Specifications: <br> Output power: 25 W <br> Residual ripple: $80 \mathrm{mVp}-\mathrm{p}$ <br> Voltage tolerance: $\pm 2.0 \%$ <br> Line regualation: $\pm 0,5 \%$ <br> Line regulation: $\pm 1.0 \%$ <br> Overload protection. Hiccup mode $W=121,9 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-4M |
| Switching power supply +/- $15 \mathrm{~V} / 2 \mathrm{~A}$ |  | Insert panel 24HP, <br> Switching power supply with clocked output <br> voltage $\pm 15 \mathrm{~V} / 2 \mathrm{~A}$, <br> Outputs on 3 safety lab terminals <br> Specifications: <br> Output power: $2 \times 30 \mathrm{~W}$ <br> Residual ripple: $120 \mathrm{mVp}-\mathrm{p}$ <br> Voltage tolerance: $\pm 1.0 \%$ <br> Line regualation: $\pm 0,5 \%$ <br> Line regulation: $\pm 0,5 \%$ <br> Overloaded protection. Hiccup mode $W=121,9 \mathrm{~mm}, \mathrm{H} 128,5 \mathrm{~mm}$ | A3-4N |
| Switching power supply 24 V/6A | $\begin{aligned} & 7 \cdots \\ & \square 0-a \end{aligned}$ | Insert panel 24 HP , <br> Switching power supply with clocked output voltage $24 \mathrm{~V} / 6 \mathrm{~A}$, <br> Specifications: <br> Output power: 150 W <br> Residual ripple: 150 mVp -p <br> Voltage tolerance: $\pm 1.0 \%$ <br> Line regualation: $\pm 0,5 \%$ <br> Line regulation: $\pm 0,5 \%$ <br> Overloaded protection $\mathrm{W}=121 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ <br> as A3-4P but for <br> mounting into aluminum channel 42 HP $W=213,1 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-4P АЗ-4X |

DC- Power supply, adjustable
DC- Power supply, adjustable

Technical data

| Description |  | Order no. |
| :--- | :--- | :--- | :--- | :--- |
| Smart DC-stabilizer |  |  |
| $2 \times 0 . .30 \mathrm{~V} / 2 \times 0.2 \mathrm{~A}$ |  |  |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Adjustable DC- stabilizer <br> NET $\square$ <br> networkable <br> Fits into 3HU alu-channel alu-channel |  | Insert panel 84 HP <br> DC stabilizer $2 \times 0 . . .30 \mathrm{~V} / 0 \ldots 2 \mathrm{~A}$ <br> Digital displays selectable V/A. <br> Preset for voltage- and current limit <br> The devices can be operated in series or parallel connection. <br> $W=426,7 \mathrm{~mm}, H=128,5 \mathrm{~mm}$ <br> option interface <br> Insert panel for System 3HU incl. 2m <br> patch cable <br> Interface Type : Ethernet <br> Are the Interface Connections <br> be on the rear panel | A3-5P <br> N3-4Q Z102 |
| Adjustable DC- stabilizer <br> NET $\square$ <br> networkable <br> Fits into 3 HU alu-channel |  | Insert panel 76HP <br> DC stabilizer $0 . . .30 \mathrm{~V} / 0 . . .2 \mathrm{~A}$ <br> Digital display V/A selectable and 10 turn potentiometer <br> Preset for voltage- and current limit $\mathrm{W}=386,1 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ <br> Option Interface <br> Insert panel for an System 3HU incl. 2m <br> patch cable <br> Interface Type : Ethernet <br> The Interface Connections <br> are on the rear panel | A3-5H <br> N3-4P Z102 |

## G Electronics

System 3HU Training
euromicron Gruppe

Measuring and signaling devices

## Meters

Technical data


Function generators

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Function generator |  | Insert panel 36HP, <br> Function generator $0.2 \mathrm{~Hz} \ldots 2 \mathrm{MHz}$ <br> Technical data : <br> Power : $230 \mathrm{~V} \pm 10 \% / 49-61 \mathrm{~Hz}$. <br> The adjustment of the frequency is carried out <br> by Potentiometer with scale and Redary switch <br> in six decadal Ranges . <br> Frequenzcy range : <br> 20/200 Hz , 2/20/200 kHz, 2 MHz <br> Waveforms : sine ,triangle, square <br> Harmonic distortion of sine : < $1.5 \%$ up to 100 <br> $\mathrm{kHz},<5 \%$ to 2 MHz <br> Output amplitude: Uss : max . 20 V at idle <br> Type 10 V into 50 ohms <br> The output is no-load and short circuit protection, <br> -20dB Attenuation via BNC connector socket . <br> DC offset can be activated : <br> 0 to $\pm 10 \mathrm{~V}$ adjustable <br> External sweep : <br> VCO module ation input $0 \ldots 5 \mathrm{~V}$ for the frequen- <br> cy change of 100: 1 <br> Input impedance about 17 ohm <br> $W=182.9 \mathrm{~mm} . H=128.5 \mathrm{~mm}$ | A3-6V |
| Smart function generator <br> NET <br> networkable |  | Eurocassette 42HP <br> Function generator with frequency and <br> Event counter, touch display and <br> Ethernet and USB interface . <br> Frequency range $0.01 \mathrm{~Hz} \ldots 20 \mathrm{MHz}$ <br> Waveforms : sine, square, triangle, pulsee, DC <br> -Modes of operation: <br> continuous <br> Frequency sweep ( sweep ) <br> amplitude ramp <br> Puls width modulation <br> - Trigger/Module ation internal or external <br> - Frequency Counter <br> - Event counter <br> - Power output with on / off function <br> - Display off function <br> DC <br> Technical specifications: <br> Sine, square : $0.01 \mathrm{~Hz} . . .20 \mathrm{MHz}$ <br> Triangle, pulse : $0.01 \mathrm{~Hz} \ldots 1 \mathrm{MHz}$ <br> Amplitude : 1 mV ... 20 Vpp (idle ) <br> DC Offset: $\pm 10 \mathrm{~V}$ (idle) <br> external Trigger : $0 . . .5 \mathrm{~V}$ <br> Counting: 0.1 Hz to $30 \mathrm{MHz} \ldots$ <br> Input Voltage : 0.5 V ... 100 Veff <br> $B=213,3 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-6T |

## Oscilloscopes

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Oscilloscope <br> NET <br> networkable |  | Insert panel 52 HP , <br> 2 - channel PC Oscilloscope with Ethernet interface . <br> The PC digital oscilloscope is simple <br> to use and is completely operated by the <br> included software. <br> Technical data : <br> Bandwidth: 150 MHz <br> Channels: 2 channels, Class 1 , common ground <br> Vertical : $2.5 \mathrm{mV} /$ div - $100 \mathrm{~V} /$ div, <br> up to $250 \mathrm{~V} /$ div with $Y$ strain <br> Timebases 35 ranges of <br> $1 \mathrm{~ns} /$ div to $200 \mathrm{~s} /$ div <br> Trigger : auto , triggered, single shot, <br> Trigger source : CH1, CH2 , EXT , net. <br> Type : cross, Pulsebreite or Delay <br> Power Power supply: 100-230 V/AC $47-63 \mathrm{~Hz}$ <br> Optional : <br> Differential Voltage Probes <br> $W=264,2 \mathrm{~mm}, \mathrm{D}=210 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-60 Z102 |
| Oscilloscope <br> NET <br> networkable |  | Insert panel 52 HP , <br> 4- Channel PC Oscilloscope <br> with Ethernet interface. <br> The PC digital oscilloscope is simple <br> to use and is completely on the <br> included software operated. <br> Technical data : <br> Bandwidth: 150 MHz <br> Channels: 4 channels, Class 1 , common <br> ground <br> Vertical : $2.5 \mathrm{mV} /$ div- $100 \mathrm{~V} /$ div, <br> up to 250 V / div with $Y$ strain <br> Timebases 35 ranges of <br> $1 \mathrm{~ns} /$ div to $200 \mathrm{~s} /$ div <br> Trigger : auto, triggered, single shot <br> Trigger source : $\mathrm{CH} 1, \mathrm{CH} 2, \mathrm{CH} 3, \mathrm{CH} 4$, <br> EXT, net. <br> Type : cross, Pulse width or Delay Power supply: $100-230 \mathrm{~V} / \mathrm{AC} 47-63 \mathrm{~Hz}$ Optionally available : Differential voltage probes $W=264,2 \mathrm{~mm}, \mathrm{D}=210 \mathrm{~mm}, \mathrm{H} 128,5 \mathrm{~mm}$ | A3-6R Z102 |

## Pneumatics

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Compressed air supply $\square$ |  | Insert panel 6HP, <br> Compressed air supply 6HP <br> 1 Quick coupling NW 5 1/8" <br> Including 1 Quick connectors NW 5 plastic hose 6/4 $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-8R |
| Compressed air supply |  | Insert panel 36HP, <br> Compressed air supply 0.5 ... 10 bar <br> Equipment: <br> 1 pressure reducing valve <br> 1 manometer 0 ... 10 bar , cl. 2.5 <br> 1 one-hand quick release NW 2.5 <br> decreasing <br> -unrelieved compressed air max . 12 bar <br> -adjusted compressed air 0 ... 10 bar <br> 1 one-hand quick release NW 2.5 <br> 1 Quick connectors NW 2,5 <br> $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-8S |

## Interfaces

Interface fields
3HU Training

## Interface fields

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Interface field LPT <br> 25 -pole <br> Fits into 3 HU |  | Power supply strip 6HP, <br> Interface field LPT parallel. <br> Equipment: <br> 1 Sub-D connector 25 - pole female with 3 m connection cable and mating connector $\mathrm{W}=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7A |
| Interface field COM/RS232 25 -pole <br> Fits into 3HU <br> - |  | Power supply strip 6HP, <br> Interface Field COM / RS232 serial . <br> Equipment: <br> 1 Sub-D connector 25 - pole male with 3 m connection cable and mating connector . $W=30,2 \mathrm{~mm}, H=128,5 \mathrm{~mm}$ | A3-7B |
| Interface field COM/RS232 9-pole | $\begin{aligned} & 4 \\ & \vdots \\ & \stackrel{\rightharpoonup}{4} \\ & - \end{aligned}$ | Power supply strip 6HP, <br> Interface field COM / RS 232 serial . <br> Equipment: <br> 1 Sub-D connector 9 - pole male with 3 m connection cable and mating connector . $W=30,2 \mathrm{~mm}, H=128,5 \mathrm{~mm}$ | A3-7C |
| Interface field VGA <br> 15-pole |  | Power supply strip 6HP, <br> Interface field VGA. <br> Equipment: <br> 1 Sub-D connector 15 - pole HD male with 3 m connection cable and mating connector. $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7D |

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Interface field DVI-I |  | Power supply strip 6HP, <br> Interface box DVI-I . <br> Equipment: <br> 1 DVI-I connectors female with about 3 m connection cable and mating connector $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7E |
| Interface field USB |  | Power supply strip 6HP , <br> Interface field USB . <br> Equipment: <br> 2 USB Connector Type A female with about 3 m connection cable and mating connector $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7F |
| Interface field PS/2 <br> Fits into 3 HU alu-channel |  | Power supply strip 6HP , <br> Interface field PS / 2. <br> Equipment: <br> 2 PS / 2 mini DIN 6- pole connector female with 3 m connection cable and Mating connector. $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7G |
| Interface field Audio L-R | $\begin{aligned} & \because \\ & \div \\ & \div \end{aligned}$ | Power supply strip 6HP, <br> Interface field Audio L - Audio R. <br> Equipment: <br> 2 RCA connectors red and white female with about 2.5 m connection cable and mating connector. $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7H |
| Interface field Audio |  | Power supply strip 6HP, <br> BNC interface. <br> Equipment: <br> 2 BNC Connector mounting sockets 50 Ohm, pluggable on both sides. $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7J |
| Interfac field FireWire | $\begin{gathered} A \\ -1 \\ \hline \end{gathered}$ | Power supply strip 6HP, Interface FireWire field. <br> Equipment: <br> 1 IEEE 1394 connector 6-pole with 3 m connection cable and mating connector. $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7K |


| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Interface field Network socket <br> alu-channel |  | Power supply strip 6HP, <br> Interface field RJ45 network socket. <br> Equipment: <br> 1 RJ45 connector socket 8-pole Cat6 pluggable on both sides $W=30.2 \mathrm{~mm}, \mathrm{H}=128.5 \mathrm{~mm}$ <br> as A3-7L but with $2 x$ RJ45 | A3-7L A3-7L Z003 |
| Interface field S-VHS |  | Power supply strip 6HP, <br> Interface box S-VHS. <br> Equipment: <br> 1 PS / 2 mini-DIN 4-pole connector female with 2 m connection cable and mating connector $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7M |
| Interface field IEEE-488/GPIB |  | Power supply strip 6HP, <br> Interface Field IEEE-488 / GPIB. <br> Equipment: <br> 1 IEEE-488 Centronics 24-pole female with 2 m connection cable and mating connector $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7N |
| Power supply strip | $\begin{aligned} & 2 \\ & \vdots \\ & 0 \\ & \hdashline \\ & \hline \end{aligned}$ | Power supply strip 6HP, <br> BNC interface. <br> Equipment: <br> 2 BNC Connector mounting sockets 50 Ohm, <br> pluggable on both sides $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7P |
| Potential equalization |  | Insert panel 6HP <br> 1 connector for potential equalization <br> POAG-ID6 (counterpart customer) <br> >> unwired $W=30,2 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-7V |
| Election pole <br> Fits into 3 HU alu-channel <br> lu-channe |  | Insert panel 18 HP , <br> 9 Safety lab terminals as an option Pole, <br> 6 Connector sockets labeled with 1 ... 6, <br> 3 Connector sockets labeled with A, B, C, <br> 2 BNC Connector mounting sockets 50 ohms. <br> Complete unwired. <br> $W=91,4 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-1D |

## Soldering equipment

## Soldering equipment

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Soldering station |  | Eurocassette 18 HP <br> Soldering station 80 W temperature controlled with soldering iron and soldering iron stand $W=91,4 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-8A |
| Soldering station |  | Eurocassette 18 HP <br> Soldering station Analog 80 W <br> brand WELLER WS 81 <br> Analog electronic control for soldering tools up to 80 W <br> Temperature range $150^{\circ} \mathrm{C}-450^{\circ} \mathrm{C}$ <br> Temperature control by rotary <br> With supplied accessories: <br> 180 W Silver Line soldering iron WSP 80 <br> 1 soldering tip LT B <br> 1 Safety WPH 80 $W=91,4 \mathrm{~mm}, \mathrm{D}=196 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-8H |

## Soldering equipment

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Soldering station |  | Insert panel 36HP <br> Temperature controlled soldering station Manu- <br> facturer Ersa ANALOG 80 <br> Temperature in the range of $150^{\circ} \mathrm{C}$ to 450 C <br> adjustable potentiometer control by analog electronic. <br> Included accessories: <br> 1 soldering iron basic tool 810 CDJ <br> with tip 0832 CD <br> 1 tray stand OA 41 <br> $W=182,9 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-8F |
| Soldering station |  | Insert panel 36HP <br> temperature controlled soldering station WS 81 manufacturer Weller. <br> Temperature in the range of $150^{\circ} \mathrm{C}$ to $450^{\circ} \mathrm{C}$ adjustable potentiometer control by analog electronic with automatic tool recognition to 80 W . <br> Included accessories: <br> 1 soldering iron WSP 80 with soldering tip LT B <br> 1 Safety rest WPH 80 <br> $W=182,9 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-8G |
| Soldering- /desoldering station |  | Eurocassette 36HP <br> Multifunctional Power soldering and desoldering station consisting of: <br> - ERSA Soldering station digital 2000 A with power tool soldering iron $24 \mathrm{~V} / 80 \mathrm{~W}$ and workstand OA 42 <br> - ERSA DIGITAL 2000 A desoldering with Vacuum unit with desoldering device X tool 24V/ <br> $2 \times 60 \mathrm{~W}$ and soldering iron stand OA 44th $W=182,9 \mathrm{~mm}, \mathrm{H}=196 \mathrm{~mm}, \mathrm{D}=128,5 \mathrm{~mm}$ | A3-8M Z601 |

# G Electronics 

euromicron Gruppe

Blank panels

## Blank panels

3HU Training

Technical data

| Description |  |  | $\begin{aligned} & \hline \text { Order no. } \\ & \hline \text { A3-9A } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Blank panel 4HP |  | Blank panel 4HP / 3HU $W=20,3 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ |  |
|  | - |  |  |
| Blank panel 6HP |  | Blank panel 6HP / 3HU $W=30,4 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-9B |
|  | - |  |  |
| Blank panel 8HP | $\because$ | Blank panel 8HP / 3HU $W=40,5 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-9C |
|  | - |  |  |
| Blank panel 12HP | - | Blank panel 12HP / 3HU $W=60,9 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-9D |
| Blank panel 18HP |  | Blank panel 18HP / 3HU $W=91,4 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-9E |
| Blank panel 24HP |  | Blank panel 24HP / 3HU $W=121,9 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-9F |
| Blank panel 36HP |  | Blank panel 36HP / 3HU $W=182,9 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-9G |

Blank panels

Technical data

| Description |  |  | Order no. |
| :---: | :---: | :---: | :---: |
| Blank panel 42HP |  | Blank panel 42HP / 3HU $W=213,3 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-9H |
| Blank panel 48HP |  | Blank panel 48HP / 3HU $W=243,8 \mathrm{~mm}, H=128,5 \mathrm{~mm}$ | A3-9J |
| Blank panel 60HP |  | Blank panel 60HP / 3HU $W=304,8 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-9K |
| Blank panel 96HP |  | Blank panel 96HP / 3HU $W=487,6 \mathrm{~mm}, \mathrm{H}=128,5 \mathrm{~mm}$ | A3-9L |
| Blank panel 24HP with description |  | Blank panel 24HP / 3HU $W=121,9 \mathrm{~mm}, H=128,5 \mathrm{~mm}$ | A3-9R |

ESD Accessories

## ESD ©

Accessories

## Technical data



## ESD

Accessories

Technical data

| Description |  | Order-No. |
| :---: | :---: | :---: |
| Earthing module EBP <br> with 3 pushbutton connections with 10 mm diameter, each with protective resistor 1 MOhm. <br> Cable 3m <br> M4 eyelet |  | 01-41 X05 |
| Earthing module EBP <br> with 3 pushbutton connections with 10 mm diameter, each with protective resistor 1 MOhm, for fixing at the side of table, Cable 3m, M4 eyelet |  | 01-41 X06 |
| ESD earthing cable <br> for table and floor mat Socket DK10 / M5 eyelet Length: 4,50 m, 1 MOhm Flattened plug prevents tripping over the connection point |  | 01-42 $\times 01$ |
| Earthing Snap fastener Universal Kit <br> consisting of: <br> snap fastener ball-part 10 mm snap fastener spring-part 10 mm screw, washer, EPA-bonding label, screw base |  | 01-42 $\times 02$ |

## ESD ©

Accessories

## Technical data

| Description |  | Order-No. |
| :--- | :--- | :--- | :--- |
| Central Earthing Box <br> Terminal strip for max 7 earthing cables with eyelet M4. | $01-42 \times 03$ |  |

## ESD \&

Accessories

Technical data

| Description |  | Order-No. |
| :---: | :---: | :---: |
| Earthing protect tile edge <br> for floor tile Ecotile PVC $500 \mathrm{~mm} \times 80 \mathrm{~mm} \times 7 \mathrm{~mm}>1 \mathrm{~mm}$, structured colour yellow / no ESD-material <br> colour dark grey / no ESD-material |  | $\begin{aligned} & 01-43 \times 03 \\ & \\ & 01-43 \times 04 \end{aligned}$ |
| Identification signs for ESD workstation. <br> Self-adhesive, <br> highly abrasion-resistant PVC, <br> resistant to cleaning agents. $W=500 \mathrm{~mm}, \mathrm{D}=300 \mathrm{~mm}$ | ACHTUNG ESD-GESCHÖTZTER BEREICH <br> ORSICHTSMASSNAHMEN BEI DER HANDHABUNG ESD-EMPFINDLICHER BAUTEILE BEACHTEN BAUTEILE BEACHTEN | 01-43 X05E |
| Identification signs for ESD workstation <br> Self-adhesive, <br> highly abrasion-resistant PVC, <br> resistant to cleaning agents. <br> $\mathrm{W}=90 \mathrm{~mm}, \mathrm{D}=40 \mathrm{~mm}$ |  | 01-43 $\times 06$ |
| EPA- exit Sign <br> German / English, red, self-adhesive, highly abrasion-resistant PVC, resistant to cleaning agents. $300 \mathrm{~mm} \times 500 \mathrm{~mm}$ |  | 01-43 $\times 07$ |

## ESD ©

Accessories

## Technical data

| Description |  | Order-No. |
| :---: | :---: | :---: |
| EPA-Barrier post <br> barrier tube and foot: polished stainless steel conductive rubber ground plate <br> Ribbon colour: yellow, resistance 10E9 Ohm double sided printing: <br> "ESD PROTECTED AREA" <br> height: $910 \mathrm{~mm}, 76 \mathrm{~mm}$ diameter <br> groundplate: 350 mm <br> weight: ca. $9,6 \mathrm{~kg}$ <br> Ribbon length: 4 m <br> (1 pcs) |  | 01-43 X08 |
| Emit Zero-Volt Ionisier <br> Voltage offset controlled to $\pm 3$ Volts typical. <br> RS-485 communication for use with EMIT SIM Software.Compatible with EMIT SIM Software <br> Features steady state DC ionization and EMIT's patented Sense Feedback balancing. Rapid Access Maintenance. Provides automatic balancing of the ionization <br> system. Sealed „Thru-Tunnel" air flow design. <br> Communication via RS485 compatible data output with a host computer. Low Ozone Emissions - tests well below the OSHA limit of 0.05 ppm ozone. |  | 01-44 X01 |
| Shoe and wristband test station <br> for wall mounting <br> with contact for release to entrance barriers including 2 -pole shoe electrode and power supply |  | 01-44 X02 |
| ESD-MultiClean surface cleaner <br> Special cleaner for static discharging and conductive surfaces. Protects the conductivity. Leaves no insulation residues. 11-Spray bottle |  | 01-45 X01 |

## ESD \&

Accessories

Technical data

| Description |  | Order-No. |
| :---: | :---: | :---: |
| ESD-MultiClean surface cleaner <br> Special cleaner for static discharging and conductive surfaces. Protects the conductivity. Leaves no insulation residues. <br> 51-Canister |  | 01-45 X02 |
| ESD-MultiClean surface cleaner |  | 01-45 X03 |
| Special cleaner for static discharging and conductive surfaces. Protects the conductivity. Leaves no insulation residues. 101-Canister |  |  |



## I Chairs

Chairs

## Chairs

Chairs

Technical Data

|  |  |  |  | Order-no. |
| :---: | :---: | :---: | :---: | :---: |
| Description <br> Basic4 <br> Medium-high backrest <br> Continuously adjustable height setting from 420-510 mm through safety gas spring Backrest with integrated lumbar support, backrest height adjustment of up to 60 mm Continuously adjustable weight regulation to a body weight of 45 and 120 kg <br> Five-spoke base frame with double swivel castors, either for hard or soft floors, Colour: black <br> Armrests available as an option Seat width: 450 mm Seat depth: 410 mm Backrest height: 430 mm |  | Pads anthracite <br> anthracite <br> black <br> black <br> dark blue <br> dark blue | Castors <br> hard, for carpets soft, for hard floors hard, for carpets soft, for hard floors hard, for carpets soft, for hard floors | $\begin{aligned} & \text { S1-1W } \\ & \text { S1-1X } \\ & \text { S1-1S } \\ & \text { S1-1T } \\ & \text { S1-1C } \\ & \text { S-1D } \end{aligned}$ |
| Basic6 <br> High backrest <br> Equipped as Basic4, but Synchronous mechanism with an opening angle between the seat and the backrest of up to a maximum of 125 degrees <br> Armrests available as an option <br> Backrest height: 530 mm |  | Pads <br> anthracite <br> anthracite <br> black <br> black <br> dark blue <br> dark blue | Castors hard, for carpets soft, for hard floors hard, for carpets soft, for hard floors hard, for carpets soft, for hard floors | $\begin{aligned} & \text { S1-4W } \\ & \text { S1-4X } \\ & \text { S1-4S } \\ & \text { S1-4T } \\ & \text { S1-4C } \\ & \text { S1-4D } \end{aligned}$ |
| Basic 4/6 armrests <br> Ringarmrests made of plastic, suitable for Basic 4/6 swivel chairs, can be retrofitted black |  |  |  | S1-6C |

Technical Data

| Description |  |  | Order-No. |
| :---: | :---: | :---: | :---: |
| Basic 8/10 armrests <br> made of plastic, width and height-adjustable suitable for Basic $8 / 10$ swivel chairs, can be retrofitted |  | Colour black | S6-6A |
| Basic Conference chair <br> 4-legged conference chair <br> Stackable visitor chair with a completely fabric-covered backrest, black four-foot base made of powder coated steel pipe with felt slides for hard floors, pipe diameter 25 mm , alternately available <br> with armrests <br> Seat height: 450 mm <br> Seat width: 460 mm <br> Seat depth: 460 mm <br> Backrest height: 440 mm <br> Backrest width: 470 mm |  | Pads Armrests <br> dark grey yes <br> dark grey no <br> black yes <br> black no <br> blue yes <br> blue no | S1-8X <br> S1-8W <br> S1-8T <br> S1-8S <br> S1-8D <br> S1-8C |
| Factory <br> standing aid <br> Optimum freedom of movement due to the leaning surfaces <br> being rotatable by $360^{\circ}$, made of integral foam with integrated carrying handle. height adjustment with gas spring lift, stable <br> plate base. <br> Colour: anthracite <br> Seat height: $650-850 \mathrm{~mm}$ <br> Incline adjustment forward: 10 |  | Factory standing aid, standard <br> Factory standing aid, ESD | $\begin{gathered} \hline 3-4 A \\ S 3-5 A \\ \end{gathered}$ |

## Technical Data

| Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Clean 16 |
| Cleanroom ESD swivel chair |

## Technical Data

| Description |  |  |  | Order-no. |
| :---: | :---: | :---: | :---: | :---: |
| Basic8 <br> Medium-high backrest High quality swivel chair with Continuously adjustable height setting from 410-510 mm through safety gas spring <br> Backrest with an adjustment range of 7 positions ( 70 mm ) Variable basic setting for seat height ( 30 mm downward and 20 mm upward) Continuously adjustable weight regulation to a body weight of 45 and 130 kg Synchronous mechanism, opening angle between the seat and the backrest up to max. $120^{\circ}$. <br> Five-spoke base frame with double swivel castors, either for hard or soft floors,Colour black <br> Seat width: 460 mm <br> Seat depth: 410-460 mm <br> Backrest height: 430 mm |  | Pads <br> black <br> black <br> mottled black <br> mottled black <br> dark blue <br> dark blue | Castors <br> hard, for carpets soft, for hard floors hard, for carpets soft, for hard floors hard, for carpets soft, for hard floors | $\begin{aligned} & S 6-1 W \\ & S 6-1 X \\ & S 6-3 W \\ & S 6-3 x \\ & S 6-1 C \\ & S 6-1 D \end{aligned}$ |
| Basic10 <br> High backrest <br> High quality swivel chair with synchronous mechanism <br> Equipped as Basic8, but with higher backrest <br> Seat width: 470 mm <br> Seat depth: $410-460 \mathrm{~mm}$ <br> Backrest height: 530 mm |  | Pads <br> black <br> black <br> mottled black <br> mottled black <br> dark blue <br> dark blue <br> also availa | Castors hard, for carpets soft, for hard floors hard, for carpets soft, for hard floors hard, for carpets soft, for hard floors <br> in ESD design | S6-4W <br> S6-4X <br> S6-7W <br> S6-7X <br> S6-4C <br> S6-4D |

## Chairs

## Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Factory4 swivel chair <br> Seat and backrests aligned to your body's anatomy, made of impact and breakage-resistant plastic, easy-clean surfaces, resistant to lyes and acids, seat height adjustment with safety gas spring, rounded seat front edge to lessen pressure on legs, permanent contact backrest, integrated lumbar support, continuously adjustable backrest height adjustment, backrest incline adjustment, reduced backrest width, five-spoke base frame, either with sliders or rollers. <br> Seat height: $430-580 \mathrm{~mm}$ <br> Seat width: 480 mm <br> Seat depth: 430 mm <br> Backrest height: 420 mm |  | Colour basalt grey with castors with sliders | $\begin{aligned} & \text { S3-1A } \\ & \text { S3-1E } \end{aligned}$ |
| Factory 8 <br> Factory8 swivel chair with climbing aid <br> Equipped as Factory4, but extended seat height, climbing aid |  | with climbing aid and sliders | S3-1k |
| Pads Factory 8 <br> Comfort-Change-Pad <br> Simple and easy hook-in installation; can be replaced or retrofitted at any time |  | Textile pad, soft and breathable, with resistant cover fabric <br> Colour black <br> Colour blue <br> Integral foam pad for soft, ,air-cushioned sitting', washable, resistant to mild acids and lyes, structured surface for improved climatic comfort. <br> Colour black <br> Colour blue | S3-10 S3-1R <br> S3-2U <br> S3-1V |

Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Factory 10 <br> -Seat height adjustment by gas-lift from 450-620 mm -Ergonomically formed seat and backrest <br> -Without upholstery element <br> -Grey Flex tape <br> -Contact backrest, permanently adapting in tilt and seating posture. Arrestable in each position. <br> -With weight regulation <br> -Infinitely adjustable height of backrest <br> -Seat depth adjustment <br> -Tilt-proof five-star base, made of die-cast aluminum, epoxy resin coated in black <br> -Load dependent braking casters for hard floors <br> -Soft, breathable textile uphols tery made of hardwearing fabric -Retrofittable at any time and can be easily fixed by hooking |  |  | S1-4T <br> ZNEON2 |

## Chairs

## Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Factory 5 <br> "AS" Automatical weight regulation <br> Counterpressure of backrest adapts automatically to weight load; individually preadjustable in two steps. <br> Synchronous movement of seat and backrest; Inclination angle of backrest can be limited three times, Backrest arrestable in foremost position. Chair will be delivered ESD-tested (incl. Certificate). |  | Pads <br> black <br> polyuretan <br> bordeaux | S8-1X <br> ( <br> S8-1Y <br> ( <br> S8-1W (en |
| Basic 5 <br> Medium high backrest <br> ESD-fabric upholstery, with base ring and sliders <br> "PF" permanent-contact backrest with tension adjustment. <br> Backrest permanently follows the movements of torso. Infinetly adjustment of backrest-counterpressure for ca. $50-125 \mathrm{~kg}$ body weight. Backrest tilt infinetly arrestable. Chair will be delivered ESD-tested (incl. Certificate). |  | Pads <br> black <br> indigo $\square$ <br> bordeaux $\square$ | S8-2X <br> S8-2D <br> (4) <br> S8-2W (10) |

## Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Basic 7 <br> High backrest <br> ESD-fabric upholstery <br> „PF" permanent-contact backrest with tension adjustment. <br> Backrest permanently follows the movements of torso. Infinetly adjustment of back-rest-counterpressure for ca. $50-125 \mathrm{~kg}$ body weight. Backrest tilt infinetly arrestable. Chair will be delivered ESD-tested (incl. Certificate). |  | Pads <br> black <br> indigo <br> bordeaux | S8-3D <br> (4) <br> S8-3W <br> fos |

## J Storage

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## Laboratory tall cabinets

The construction of entire walls of cabinets is achieved through the use of a single base element - and depending on the desired overall
cabinet width - and through the stringing together of several attachment elements. Cabinet doors with glazing in the entire height of the doors is available for professional room furnishings. The rotary bar closing mechanism is covered thirereby with a light grey panel made doors is available for professional room furnishings. The rotary bar closing mechanism is cover
coated chipboard. The glass doors are made of $4 \mathrm{~mm} E S G$ glass (single-pane safety glass).

Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Tall cabinet <br> Single door <br> 1 folding door, right 1 Handle with integrated lock Base element <br> Attachment element Also available with radio technology (closure via transponder |  | $520 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ $500 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ | $\begin{aligned} & 07-1 \mathrm{~A} \\ & 07-1 \mathrm{E} \end{aligned}$ |
| Tall cabinet <br> Single door glazed <br> 1 folding door, right, glazed the entire height of the door <br> 1 Handle with integrated lock <br> Base element <br> Attachment element <br> Also available with radio technology Iclosure via transponder) |  | $520 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ $500 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ | $\begin{aligned} & 07-1 \mathrm{~B} \\ & 07-1 \mathrm{~F} \end{aligned}$ |
| Tall cabinet <br> Two-door <br> 2 folding doors <br> 1 Handle with integrated lock <br> Base element <br> Attachment element <br> Also available with radio technology (closure via transponder) |  | $1020 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ $1000 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ | $\begin{aligned} & 07-1 \mathrm{C} \\ & 07-1 \mathrm{C} \end{aligned}$ |
| Tall cabinet <br> Two-door glazed <br> 2 folding doors, glazed the entire height of the door <br> 1 Handle with integrated lock <br> Base element <br> Attachment element <br> Also available with radio technology (closure via transponder) |  | $1020 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ $1000 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ | $\begin{aligned} & 07-1 \mathrm{D} \\ & 07-1 \mathrm{H} \end{aligned}$ |

## Laboratory tall cabinets

Rack elements fit precisely onto the base and mounting elements. They are produced in accordance with the room dimensions Remaining space can be shut off flush with the room ceiling using a panel. The front doors are standard-fitted with a
handle which has no lock.

Technical Data

| Description |
| :--- | :--- | :--- | :--- |
| Rack element <br> Single door |
| 1 folding door right |
| 1 handle |
| Base element |
| Attachment element |
| Also available with radio |
| technology (closure via trans- |
| ponder) |

## Tall cabinets

The complete cabinets are already provided with furnishing elements. The integrated organisation aids can be modified or supplemented at any time as a result of the 32 mm European fitting grid. Sliding door cabinets require no open space for opening. In the event of space restrictions in narrow room layouts, this can be an advantage over the folding door version

Technical Data


## Laboratory tall cabinets

A multitude of different organisation elements can be fitted into Elabo laboratory cabinet systems. This allows you to realise lexible, user-friendly solutions

Technical Data

| Description |  |  | Order-No. |
| :---: | :---: | :---: | :---: |
| Centre wall <br> For base and mounting elements with grid width 1000 mm |  | $16 \mathrm{~mm} \times 540 \mathrm{~mm} \times 1930 \mathrm{~mm}$ | 07-1P |
| Shelves <br> For cabinets with grid width of 500 mm Wood, capacity 35 kg Metal, capacity 100 kg <br> For cabinets with grid width of 1000 mm <br> Wood, capacity 25 kg <br> Wood, capacity 50 kg <br> Metal, capacity 100 kg |  |  |  |
|  |  | $480 \mathrm{~mm} \times 540 \mathrm{~mm} \times 19 \mathrm{~mm}$ $480 \mathrm{~mm} \times 540 \mathrm{~mm} \times 25 \mathrm{~mm}$ <br> $980 \mathrm{~mm} \times 940 \mathrm{~mm} \times 19 \mathrm{~mm}$ $980 \mathrm{~mm} \times 940 \mathrm{~mm} \times 25 \mathrm{~mm}$ $980 \mathrm{~mm} \times 940 \mathrm{~mm} \times 25 \mathrm{~mm}$ | $\begin{aligned} & 07-2 \mathrm{~A} \\ & 07-2 \mathrm{U} \\ & \\ & 07-2 \mathrm{~L} \\ & 07-2 \mathrm{M} \\ & 07-2 \mathrm{~W} \end{aligned}$ |
| Shelves <br> Extendable <br> Partial pullout for cabinets with grid width of 500 mm Capacity 27 kg <br> Full pullout for front and rear upturned edge, for cabinets with grid width of 1000 mm Capacity 47 kg |  | $480 \mathrm{~mm} \times 540 \mathrm{~mm} \times 19 \mathrm{~mm}$ <br> $980 \mathrm{~mm} \times 540 \mathrm{~mm} \times 163 \mathrm{~mm}$ | $\begin{aligned} & 07-2 B \\ & 07-2 P \end{aligned}$ |
| Shelves <br> With grooved mats <br> 19 mm thick, <br> With grooved mats 10 mm thick, <br> For the storage of experiment boards, for cabinets with grid width of 500 mm Coated on one side Coated both sides <br> PVC grooved mats, loose Note-The grooved mat must be adapted manually; please use screws or high-strength adhesive. |  | $480 \mathrm{~mm} \times 540 \mathrm{~mm} \times 25 \mathrm{~mm}$ $480 \mathrm{~mm} \times 540 \mathrm{~mm} \times 39 \mathrm{~mm}$ <br> $480 \mathrm{~mm} \times 540 \mathrm{~mm} \times 10 \mathrm{~mm}$ | $07-2 \mathrm{C}$ $07-2 \mathrm{D}$ <br> 07-9E |

Laboratory tall cabinet accessories

Technichal Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Drawers <br> Inside wooden drawer With partial pullout, for cabinets with grid width of 500 mm, <br> Capacity 25 kg <br> Inside steel plate drawer with full telescoping pullout, for cabinets with a grid width of 1000 mm , <br> Capacity 70 kg |  | $480 \mathrm{~mm} \times 505 \mathrm{~mm} \times 94 \mathrm{~mm}$ $908 \mathrm{~mm} \times 490 \mathrm{~mm} \times 85 \mathrm{~mm}$ | 07-2E $07-20$ |
| Hanging filing system <br> For A4 hanging bags, longitudinal or transverse, With full telescopic pullout, For cabinets with grid width of 1000 mm , Capacity 70 kg |  | $\begin{aligned} & 980 \mathrm{~mm} \times 540 \mathrm{~mm} \times 100 \mathrm{~mm} \\ & \text { Effective height } 300 \mathrm{~mm} \end{aligned}$ | 07-2R |
| Clothes racks <br> Clothes rack with chromepated oval pipe with fastening elements, for cabinets with grid widths of 500 mm <br> Clothes rack with chromepated oval pipe with fastening elements, for cabinets with grid widths of 1000 mm |  | Length 480 mm <br> Length 980 mm | 07-2F <br> 07-2S |
| Roller step stool <br> Roller step stool made of steel, with 3 lowerable, sprung swivel castors and castors. Easy-running in any direction without strain, sturdy under strain. <br> Extra-wide standing space with ribbed plastic pad. Allround impact protection, base part with rubber edging. <br> Colour: white/black <br> Roller step stool <br> Dimensions |  | Diameter bottom 450 mm Diameter at top 290 mm Hight 20 mm | 07-90 |

Laboratory tall cabinet accessories
The ladder frame is an expedient supplement to the room-height cabinet wall system. The rack elements can be easily and comfortably reached using the hanging or fixed-mounted light metal ladder. Locking systems (available from Elabo at no extra charge) have to be designed precis
We would be happy to advise you.

Technichal Details


## Laboratory tall cabinet organisation aids

Steel plate drawers for side and tall cabinets have the same construction design as base cabinets and can also be equipped with partitions and compartment tividers. In the case of wide steel plate drawers, an additional set of perforated grid strips is
required. Moulded trays can also be used.

## Technical Data



Laboratory side cabinets


The side cabinet system partition is identical in construction, quality and colour with the laboratory tall cabinet system. Open shelves, folding doors, shutter doors and sliding door cabinets are available. Side cabinets for storing DIN A4 hanging bags are shelves, folding doors, shutter doors and sliding door cabinets are avaliable. Side cabinets for storing DIN A4 han

Side cabinets with sliding doors have a pressure safety lock. The cabinets with drawers have a central lock with mutual door ocking. All locks are adaptable for locking systems and master keys. With the accessory elements of base, storage tray and cover plate, the base cabinets can be connected together in many different ways to form larger functional units.

Side cabinets placed on top of each other - with optional integrated storage tray - can be used for the configuration of simple partition solutions - also for use on alternating sides. The free cabinet rear walls can also be used as an information area with pinboard or a steel rear wall for writing on.

## Laboratory side cabinets

Laboratory side cabinets avalable in 3 widths and in 2 heights (file heights). The depth is a uniform 600 mm , Just as with the tall cabinets. The drawer cabinets have steel plate drawers with perforations and the same arrangement system as is to be
generally found with the Elabo base cabinet or tall cabinet drawers. The shelves are height-adjustable in 32 mm grids.

## Technical Data

| Description |
| :--- | :--- | :--- | :--- | :--- |
| Orga Clip |
| Partition wall can be |
| positioned flexibly in the drawer. |
| Materiaiplastic |
| Packiging unit: 10 pcs |

Laboratory side cabinets
The Elabo partition side cabinets can be used for almost any room layout. A room fitted with these products always remains flexible; any conversions required can be carried out quickly and in a few steps. Several side cabinets placed in rows can be
covered with one single cover plate.

Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Side cabinet with sliding doors <br> Centre wall 2 shelves |  | $\begin{array}{r} 820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm} \\ 1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm} \end{array}$ | $\begin{aligned} & 08-2 E \\ & 08-2 F \end{aligned}$ |
| Side cabinet with sliding doors <br> Centre wall 4 shelves |  | $\begin{array}{r} 820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 1100 \mathrm{~mm} \\ 1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 1100 \mathrm{~mm} \end{array}$ | $\begin{aligned} & 08-3 E \\ & 08-3 F \end{aligned}$ |
| Side cabinet with roller shutters <br> Centre wall 2 shelves |  | $\begin{array}{r} 820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm} \\ 1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm} \end{array}$ | $\begin{aligned} & 08-2 G \\ & 08-2 H \end{aligned}$ |
| Side cabinet with roller shutters <br> Centre wall 4 shelves |  | $\begin{array}{r} 820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 1100 \mathrm{~mm} \\ 1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 1100 \mathrm{~mm} \end{array}$ | $\begin{aligned} & 08-3 G \\ & 08-3 H \end{aligned}$ |

## Laboratory side cabinets

The drawer side cabinets are equipped with black coated steel plate inserts. Full telescopic pullouts allows loads of up to 45 kg .
The consistent organisation system for all Elabo steel plate drawers ensures flexible organisation for any requirements. The consistent organisation system for all Elabo steel plate drawers ensures flexible organisation for any requirements.

## Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Side cabinet with hanging filing system <br> 2 fold $2 \times$ A4 crosswise <br> 2 fold $3 \times$ A4 crosswise |  | $\begin{aligned} & 820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm} \\ & 1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm} \end{aligned}$ | $\begin{aligned} & 08-2 \mathrm{~J} \\ & 08-2 \mathrm{~K} \end{aligned}$ |
| Side cabinet with drawers <br> 3 drawers $3+4+4 \mathrm{HE}$ |  | $420 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm}$ <br> $820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm}$ | $\begin{aligned} & 08-2 M \\ & 08-2 R \\ & 08-2 U \end{aligned}$ |
| Side cabinet with drawers <br> 4 drawers $3+2+3+3 \mathrm{HE}$ |  | $420 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm}$ <br> $820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm}$ | $\begin{aligned} & 08-2 \mathrm{~N} \\ & 08-2 \mathrm{~S} \\ & 08-2 \mathrm{~V} \end{aligned}$ |
| Side cabinet with drawers <br> 5 drawers $3+2+2+2+2 \mathrm{HE}$ |  | $420 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm}$ <br> $820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 720 \mathrm{~mm}$ | $\begin{aligned} & 08-2 P \\ & 08-2 T \\ & 08-2 W \end{aligned}$ |

Laboratory side cabinet accessories
Whether setting up these products back-to-back or mounted above each other - all the prerequisites are fulfilled for flexible room design. The optional storage tray, placed between two elements, provides an ideal place to put files.

Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Base <br> For side cabinets $W=420 \mathrm{~mm}$ For side cabinets $W=820 \mathrm{~mm}$ For side cabinets $W=1200 \mathrm{~mm}$ <br> For side cabinets $W=420 \mathrm{~mm}$ For side cabinets $W=820 \mathrm{~mm}$ For side cabinets $W=1200 \mathrm{~mm}$ |  | $\begin{array}{r} 420 \mathrm{~mm} \times 600 \mathrm{~mm} \times 30 \mathrm{~mm} \\ 820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 30 \mathrm{~mm} \\ 1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 30 \mathrm{~mm} \\ 420 \mathrm{~mm} \times 600 \mathrm{~mm} \times 80 \mathrm{~mm} \\ 820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 80 \mathrm{~mm} \\ 1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 80 \mathrm{~mm} \end{array}$ | 08-4A <br> 08-4 <br> 08-4C <br> 08-4R <br> 08-4S <br> 08-4T |
| Storage Tray element <br> 1 fold <br> 2 fold |  | $420 \mathrm{~mm} \times 600 \mathrm{~mm} \times 19 \mathrm{~mm}$ $820 \mathrm{~mm} \times 600 \mathrm{~mm} \times 19 \mathrm{~mm}$ <br> $1200 \mathrm{~mm} \times 600 \mathrm{~mm} \times 19 \mathrm{~mm}$ | $\begin{aligned} & 08-3 E \\ & 08-3 F \\ & 08-3 G \end{aligned}$ |
| Cover plate <br> For side cabinets $W=420 \mathrm{~mm}$ <br> For side cabinets $W=820 \mathrm{~mm}$ <br> For side cabinets $W=1200 \mathrm{~mm}$ <br> For corner side cabinet <br> As an alternative, one-piece cover plates can be laid over several side cabinets. |  | $426 \mathrm{~mm} \times 610 \mathrm{~mm} \times 30 \mathrm{~mm}$ $826 \mathrm{~mm} \times 610 \mathrm{~mm} \times 30 \mathrm{~mm}$ $1206 \mathrm{~mm} \times 610 \mathrm{~mm} \times 30 \mathrm{~mm}$ <br> $971 \mathrm{~mm} \times 610 \mathrm{~mm} \times 30 \mathrm{~mm}$ | 08-4K <br> 08-4L <br> 08-4M <br> 08-4X |
| Additional shelf <br> For side cabinets $W=420 / 820 \mathrm{~mm}$ <br> For side cabinets $W=1200 \mathrm{~mm}$ <br> For side cabinet 08-2D |  | $380 \mathrm{~mm} \times 520 \mathrm{~mm} \times 19 \mathrm{~mm}$ $570 \mathrm{~mm} \times 520 \mathrm{~mm} \times 19 \mathrm{~mm}$ $380 \mathrm{~mm} \times 540 \mathrm{~mm} \times 19 \mathrm{~mm}$ | 08-5A <br> 08-5 <br> 08-5E |
| Additional shelf for roller shutter cabinets <br> For roller shutter cabinets $\mathrm{W}=820 \mathrm{~mm}$ <br> For roller shutter cabinets $W=1200 \mathrm{~mm}$ |  | $340 \mathrm{~mm} \times 490 \mathrm{~mm} \times 19 \mathrm{~mm}$ <br> $530 \mathrm{~mm} \times 490 \mathrm{~mm} \times 19 \mathrm{~mm}$ | $\begin{gathered} 08-5 B \\ 08-5 D \end{gathered}$ |

Technical Data


## Office tall cabinets

Office tall cabinets


On the office systems, the grid widths and the drawer depths (lower file depth) are different than on the laboratory cabinet systems

The technical design of the office cabinet system is however identical to that of the laboratory cabinet system. The laboratory and office cabinet systems can easily be combined with each other by using the same fittings, materials and surfaces.

Basic and mounting cabinet elements, corner elements and rack elements are also available.
Cabinet walls adapted to the millimetre are also part of the Elabo range. Additional equipment for office cabinets with rack elements such as ladder frames, aluminium ladders or step stools can be used which are of the same construction as the laboratory cabinet system products.

Office tall cabinets
Whole cabinet walls can be configured cheaply and attractively using a basic cabinet element and further mounting elements.
If required, the cabinets can assume practical partition functions by doubling the rear walls. If required, the cabinets can assume practical partition functions by doubling the rear walls.

## Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Tall Cabinet two doors <br> 2 folding doors <br> 1 handle with lock <br> Base element Attachment element |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 2045 \mathrm{~mm}$ $800 \mathrm{~mm} \times 440 \mathrm{~mm} \times 2045 \mathrm{~mm}$ | $\begin{aligned} & 07-4 \mathrm{~A} \\ & 07-4 \mathrm{~B} \end{aligned}$ |
| Tall Cabinet two-door, glazed <br> 2 folding doors glazed the entire height of the door <br> 1 handle with lock <br> Base element Attachment element |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 2045 \mathrm{~mm}$ $800 \mathrm{~mm} \times 440 \mathrm{~mm} \times 2045 \mathrm{~mm}$ | $\begin{aligned} & 07-4 \mathrm{~L} \\ & 07-4 \mathrm{M} \end{aligned}$ |
| Rack element two-door <br> 2 folding doors <br> 1 handle <br> Base element <br> Attachment element <br> $\mathrm{Z}=$ Please specify required height |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times$ max. 980 mm $800 \mathrm{~mm} \times 440 \mathrm{~mm} \times$ max. 980 mm | $\begin{aligned} & 07-4 C Z \\ & 07-4 D Z \end{aligned}$ |
| Basic-corner-elements single-door <br> 1 folding door right <br> Base element <br> 1 handle with lock <br> 5 height-adjustable shelves <br> 19 mm thick <br> Base element rack 1 handle |  | $765 \mathrm{~mm} \times 440 \mathrm{~mm} \times 2045 \mathrm{~mm}$ $765 \mathrm{~mm} \times 440 \mathrm{~mm} \times \text { max. } 980 \mathrm{~mm}$ | 07-4P <br> $07-4 \mathrm{~N}$ |

Office complete cabinets
The preassembled combination cabinet solutions have proven their usefulness as versions for office areas. Behind the folding
doors, files can be stored within easy reach. Hanging filing system full pullouts contain the necessary documents in DIN A4 dorrs, files can be stored within easy reach. Hanging filing system full lulllouts contain the necessary documents in DIN A4
dormat. The steel plate drawers provide storage for a wide variety of office utensils.

## Technical Data



Office tall cabinet accessories

Technical Data


Office tall cabinet organisation aids
The steel plate drawers used in the office cabinet system are technically of the same construction as the laboratory system
The consistent organisation system also ensures optimum tidiness here - whether for base cabinets, side cabinets or The consistent organisation system also ensures optimum tidiness here - whether for base cabinets, side cabinets or
tall cabinet drawers. If partitions and compartment dividers are used in the wide drawer, 1 set of perforated grid strips required per drawer..

Technical Data


Office side cabinets

## Technical Data

| Description |
| :--- | :--- | :--- | :--- | :--- |
| Side shelf |
| 1 shelf |
| Centre wall |
| 2 shelves |
| Centre wall |
| 2 shelves |

Office side cabinets

Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Side cabinet <br> With sliding doors, centre wall 2 shelves <br> With sliding doors, centre wall 2 shelves |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ <br> $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ | $\begin{aligned} & 09-2 \mathrm{E} \\ & 09-2 \mathrm{~F} \end{aligned}$ |
| Side cabinet <br> With sliding doors, centre wall 4 shelves <br> With sliding doors, centre wall 4 shelves |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 1100 \mathrm{~mm}$ <br> $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 1100 \mathrm{~mm}$ | $\begin{aligned} & 09-3 E \\ & 09-3 F \end{aligned}$ |
| Side cabinet <br> With transverse roller shutters, centre wall <br> 2 shelves <br> With transverse roller shutters centre wall <br> 2 shelves |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ <br> $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ | $\begin{aligned} & 09-2 \mathrm{G} \\ & 09-2 \mathrm{H} \end{aligned}$ |
| Side cabinet <br> With transverse roller shutters, centre wall 4 shelves <br> With transverse roller shutters, centre wall 4 shelves |  | $820 \mathrm{~mm} \times 40 \mathrm{~mm} \times 1100 \mathrm{~mm}$ <br> $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 1100 \mathrm{~mm}$ | $\begin{aligned} & 09-3 G \\ & 09-3 H \end{aligned}$ |

Office side cabinets
As is the case with laboratory use, the office side cabinets with drawers are equipped with steel plate drawers and full
telescopic telescopic

Technical Data

| Description |  |  | Order-No. |
| :---: | :---: | :---: | :---: |
| Side cabinet <br> With hanging filing system $2 \times 2 \times$ A4 crosswise <br> With hanging filing system $2 \times 3 \times$ A4 crosswise |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ <br> $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ | $\begin{aligned} & 09-2 \mathrm{~J} \\ & 09-2 \mathrm{~K} \end{aligned}$ |
| Side cabinet <br> With 3 drawers <br> $3+4+4 \mathrm{HU}$ |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ | $\begin{aligned} & 09-2 R \\ & 09-2 U \end{aligned}$ |
| Side cabinet <br> With 4 drawers $3+2+3+3 \mathrm{HU}$ |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ | $\begin{aligned} & 09-2 \mathrm{~S} \\ & 09-2 \mathrm{~V} \end{aligned}$ |
| Side cabinet <br> With 5 drawers <br> $3+2+2+2+2 \mathrm{HU}$ |  | $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 720 \mathrm{~mm}$ | $\begin{aligned} & 09-2 T \\ & 09-2 W \end{aligned}$ |

Office side cabinet accessories

Technical Data

| Description |  |  | Order-no. |
| :---: | :---: | :---: | :---: |
| Base <br> For side cabinets $W=420 \mathrm{~mm}$ For side cabinets $W=820 \mathrm{~mm}$ For side cabinets $W=1200 \mathrm{~mm}$ <br> For side cabinets $W=420 \mathrm{~mm}$ For side cabinets $W=820 \mathrm{~mm}$ <br> For side cabinets $W=1200 \mathrm{~mm}$ |  | $420 \mathrm{~mm} \times 440 \mathrm{~mm} \times 30 \mathrm{~mm}$ $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 30 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 30 \mathrm{~mm}$ <br> $420 \mathrm{~mm} \times 440 \mathrm{~mm} \times 80 \mathrm{~mm}$ $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 80 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 80 \mathrm{~mm}$ | $\begin{aligned} & 09-4 \mathrm{~A} \\ & 09-4 \mathrm{~B} \\ & 09-4 \mathrm{C} \\ & \\ & 09 \mathrm{R} \\ & 09-4 \mathrm{~S} \\ & 09-4 \mathrm{C} \end{aligned}$ |
| Storage tray <br> 1 fold <br> 2 fold |  | $420 \mathrm{~mm} \times 440 \mathrm{~mm} \times 19 \mathrm{~mm}$ $820 \mathrm{~mm} \times 440 \mathrm{~mm} \times 19 \mathrm{~mm}$ <br> $1200 \mathrm{~mm} \times 440 \mathrm{~mm} \times 19 \mathrm{~mm}$ | 09-3E <br> 09-3F |
| Cover plate <br> For side cabinets $W=420 \mathrm{~mm}$ For side cabinets $W=820 \mathrm{~mm}$ <br> For side cabinets $W=1200 \mathrm{~mm}$ <br> For corner side cabinet As an alternative, one-piece cover plates can be laid over several side cabinets |  | $426 \mathrm{~mm} \times 450 \mathrm{~mm} \times 30 \mathrm{~mm}$ $826 \mathrm{~mm} \times 450 \mathrm{~mm} \times 30 \mathrm{~mm}$ $1206 \mathrm{~mm} \times 450 \mathrm{~mm} \times 30 \mathrm{~mm}$ $771 \mathrm{~mm} \times 450 \mathrm{~mm} \times 30 \mathrm{~mm}$ | 09-4K 09-4L $09-4 \mathrm{M}$ 09-4X |
| Additional shelf <br> For side cabinets $W=420 / 820 \mathrm{~mm}$ For side cabinets $W=1200 \mathrm{~mm}$ <br> For side cabinet 09-2D |  | $380 \mathrm{~mm} \times 360 \mathrm{~mm} \times 19 \mathrm{~mm}$ $570 \mathrm{~mm} \times 360 \mathrm{~mm} \times 19 \mathrm{~mm}$ <br> $380 \mathrm{~mm} \times 380 \mathrm{~mm} \times 19 \mathrm{~mm}$ | 09-5A 09-5C <br> 09-5E |
| Additional shelf <br> For roller shutter cabinets $W=820 \mathrm{~mm}$ <br> For roller shutter cabinetsW $=1200 \mathrm{~mm}$ |  | $340 \mathrm{~mm} \times 330 \mathrm{~mm} \times 19 \mathrm{~mm}$ $530 \mathrm{~mm} \times 330 \mathrm{~mm} \times 19 \mathrm{~mm}$ | $\begin{aligned} & 09-5 B \\ & 09-5 D \end{aligned}$ |

Office side cabinet accessories
The rear walls on the partitions can be used for internal information purposes in the same way as in the laboratory area.
Mounting a pinboard or a steel plate surface for writing on provides an expedient method of communication. Pinboard design Mounting a pinhoard or a steel l late surface for writing on provides an expedient method of communication. Pinboard design

Technical Data



K Education
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Tables

ELABO
mentercomper


## Primus One

System table with cable flap and cable duct


## Technical features

Rear table legs as system profile column with integrated cable duct Heavy-load slot nuts on the table legs for attaching accessories
Centrally arranged fold-away cable flap
Large-volume cable trough accessible from the front
When set up side by side the cabling can be passed straight through
Height adjusters for leveling on uneven floors
Optionally available with height adjustment - can also be retrofitted
Individual colour choice possible
System profile can be expanded at the back
Front table legs can be set back to provide more legroom

Note
Front insert panels must be ordered separately. You can find them in chapter 1.1 Table accessories

## Primus One

System table with cable flap and cable duct

## Technical data

| Table top |  |
| :---: | :---: |
| Thickness | 30 mm |
| Front edging | Edge strip 3 mm thick or Flexi-Line edging, exchangeable (F-edging) |
| Coating | HPL laminate 0.8 mm , non-glare, abrasion-resistant in accordance with EN 438, heat-resistant for short periods, highly flame-retardant |
| Colour | light grey RAL 7035 |
| Cable duct |  |
| Dimensions | Height $=150 \mathrm{~mm}$, Depth $=175 \mathrm{~mm}$ |
| Cable flap |  |
| Configuration | Fold-away, with brush strip on the back |
| Dimensions | Width $=880 \mathrm{~mm}$, Depth $=124 \mathrm{~mm}$, Height $=30 \mathrm{~mm}$ |
| Maximum load |  |
| Weight loading | 200 kg surface load capacity |
| ESD Variant |  |
| Table top | Same properties as standard model but volume-conductive |
| Configuration | DIN EN 61340-5-1 Part 5-1 |
| Dimensions |  |
| Width | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |
| Depth | $800 \mathrm{~mm}, 900 \mathrm{~mm}, 1000 \mathrm{~mm}$ |
| Height | 750 mm |

Ordering no.

| Width $\times$ Depth | Clear dimensions between profiles | F- edging | Edge strip |
| :--- | :--- | :--- | :--- |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | 964 mm | K0-1E | K0-1E.S |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | 1264 mm | K0-1D | K0-1D.S |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | 1364 mm | K0-1C | K0-1C.S |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | 1564 mm | K0-1B | K0-1B.S |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | 1764 mm | K0-1A | K0-1A.S |
|  |  |  |  |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | 964 mm | K0-2E | K0-2E.S |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | 1264 mm | K0-2D | K0-2D.S |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | 1364 mm | K0-2C | K0-2C.S |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | 1564 mm | K0-2B | K0-2B.S |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | 1764 mm | K0-2A | K0-2A.S |
|  |  |  |  |
| $1200 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | 964 mm | K0-3E | K0-3E.S |
| $1500 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | 1264 mm | K0-3D | K0-3D.S |
| $1600 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | 1364 mm | K0-3C | K0-3C.S |
| $1800 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | 1564 mm | K0-3B | K0-3B.S |
| $2000 \mathrm{~mm} \times 1000 \mathrm{~mm}$ | 1764 mm | K0-3A | K0-3A.S |

## Primus One

System-Superstructure 3HU


## Technical features

Ergonomically inclined towards the user (front inclination) Completely electrically pre-wired with device connections Can be fitted with Elabo devices or third-party devices
Removable metal rear wall

Note:
Table must be ordered separately.

## Primus One

System-Superstructure 3HU

Technical data

| Body |  |  |
| :--- | :--- | :--- |
| Thickness | 19 mm |  |
| Coating | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |
| Colour | light grey RAL 7035 | Equipment |
| Dimensions | Width | 216 HP |
| Width | 1200 mm | 270 HP |
|  | 1500 mm | 294 HP |
|  | 1600 mm | 330 HP |
|  | 1800 mm | 372 HP |
|  | 2000 mm | Top: 375 mm <br> Bottom: 388 mm |
| Depth |  | 211 mm |
| Height | 3 HU |  |

Ordering no.

| Width | Standard |
| :--- | :--- |
| 1200 mm | K4-2E.X01 |
| 1500 mm | K4-2D.X01 |
| 1600 mm | K4-2C.X01 |
| 1800 mm | K4-2B.X01 |
| 2000 mm | K4-2A.X01 |

## Suitable system profile (1 pair)

| Length: 210 mm | K5-1P.0210 |
| :--- | :--- |

## Primus One

Fold- away system technology 3HU


## Technical features

Fold-away device body to predect devices when not in use
In retracted state usable as a normal work table
Device body can be equipped with Elabo or third-party devices
Electrically prewired with device connections
Ergonomically and clearly arranged devices
System profile columns expandable upwards
Base body with inspection flap
End position identification combined with software
Replacable ergonomically front-edge
Rear table legs usable for cable routing
Optionally remotely controllable by switch or software

## 3HU NET

Scope of delivery
Primus One system table including fold-away system device body and electric drive
Height extender profiles, interchangeable frames, insert panels and devices must be ordered separately.
Note
Insert panels underneath table top have a length of 480 mm .

## Primus One

Fold- away system technology 3HU

## Technical data

| Table top |  |  |  |
| :--- | :--- | :---: | :---: |
| Thickness | 30 mm |  |  |
| Front edge | Flexi-Line edging, exchangeable |  |  |
| Coating | HPL laminate 0.8 mm, non-glare, abrasion-resistant in accordance <br> with EN 438, heat-resistant for short periods |  |  |
| Colour | light grey RAL 7035 |  |  |
| Device body | 3 HU grid system according to DIN 41494 <br> $1 \mathrm{HP}=5,08 \mathrm{~mm}$ |  |  |
| Thickness | 19 mm |  |  |
| Front edge | Melamine coating, resistant to organic solvents, weak acids, <br> gasoline and oil |  |  |
| Coating | light grey RAL 7035 |  |  |
| Colour |  |  |  |
| Dimensions | $1200 \mathrm{~mm}, 1500 \mathrm{~mm}, 1600 \mathrm{~mm}, 1800 \mathrm{~mm}, 2000 \mathrm{~mm}$ |  |  |
| Width | $800 \mathrm{~mm}, 900 \mathrm{~mm}$ |  |  |
| Depth | 750 mm |  |  |
| Height |  |  |  |

Ordering no.

| Width $\times$ Depth | Mounting width | Ordering no. |
| :--- | :--- | :--- |
| $1200 \mathrm{~mm} \times 800 \mathrm{~mm}$ | $3 \mathrm{HE} / 144 \mathrm{HP}$ | A7-4E |
| $1500 \mathrm{~mm} \times 800 \mathrm{~mm}$ | $3 \mathrm{HE} / 188 \mathrm{HP}$ | A7-4D |
| $1600 \mathrm{~mm} \times 800 \mathrm{~mm}$ | $3 \mathrm{HE} / 224 \mathrm{HP}$ | A7-4C |
| $1800 \mathrm{~mm} \times 800 \mathrm{~mm}$ | $3 \mathrm{HE} / 270 \mathrm{HP}$ | A7-4B |
| $2000 \mathrm{~mm} \times 800 \mathrm{~mm}$ | $3 \mathrm{HE} / 300 \mathrm{HP}$ | A7-4A |
|  |  |  |
| $1200 \mathrm{~mm} \times 900 \mathrm{~mm}$ | $3 \mathrm{HE} / 144 \mathrm{HP}$ | A7-5E |
| $1500 \mathrm{~mm} \times 900 \mathrm{~mm}$ | $3 \mathrm{HE} / 188 \mathrm{HP}$ | A7-5D |
| $1600 \mathrm{~mm} \times 900 \mathrm{~mm}$ | $3 \mathrm{HE} / 224 \mathrm{HP}$ | A7-5C |
| $1800 \mathrm{~mm} \times 900 \mathrm{~mm}$ | $3 \mathrm{HE} / 270 \mathrm{HP}$ | A7-5B |
| $2000 \mathrm{~mm} \times 900 \mathrm{~mm}$ | $3 \mathrm{HE} / 300 \mathrm{HP}$ | A7-5A |

## Primus One

System insert panels for didactics


## Technical features

Aluminum press rod profile for maximum stability
Heavy-load slot nuts for attaching accessories, e.g. PC-holder
High-quality anodized surface
Profile designed as a "vertical equipping channel"
Cable clips inside for clear arranged cable routing
Suitable for equipping system Insert panels
Expandable upwards by invisible, patended fixing technology (at rear table legs

Technical data

| Description | Länge | Odering- No. |
| :--- | :--- | :--- |
| For equipping with 240 mm insert panels | 270 mm | K5-1P.0270 |
| For equipping with 480 mm insert panels <br> or $1 \times 360 \mathrm{~mm}+1 \times 120 \mathrm{~mm}$ <br> Suitable for fixing of interchangeable frame (1-level) | 510 mm | K5-1P.0510 |
| For equipping with $1 \times 480 \mathrm{~mm}+1 \times 360 \mathrm{~mm}$ insert panels <br> Suitable for fixing of interchangeable frame (2-level) | 870 mm | K5-1P.0870 |

## Primus One

System insert panels for didactics

## Technical data

| Description |  |  | Odering- No. |
| :---: | :---: | :---: | :---: |
| Power supply panel 1-phase <br> System voltage 3 / N / PE ~50 Hz 400 V 16 A $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=360 \mathrm{~mm}$ <br> Equipment: <br> 1 Emergency off switch, unwired <br> 1 Off button <br> 1 Key switch button <br> 3 Phase indicator light <br> 5 Safety rules |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-5A00DE.360.3020 <br> K5-5A00DE. 360.5005 <br> K5-5A00DE. 360.7021 |
| Didactic panel $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=360 \mathrm{~mm}$ <br> Equipment: <br> 2 Laboratory safety sockets 2 mm red / black, unwired <br> Print "KNX-Logo" <br> 1 Schuko Socket (type F) <br> 1 Univers-double-socket (RJ45)/8/8(8/8) Cat.6, shielded (unwired) |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-5A01DE. 360.3020 <br> K5-5A01DE. 360.5005 <br> K5-5A01DE.360.7021 |
| Didactic panel $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=360 \mathrm{~mm}$ <br> Equipment: <br> 1 quick connect coupling NW5 1/8" incl. <br> 1 plug nipple NW5 for plastic tube 6/4 <br> 1 interface panel "ASi" <br> 4 laboratory safety sockets 4 mm yellow, unwired <br> 1 interface panel "PROFI BUS" <br> 2 sub-D adapter (Genter-Changer) 9-pole <br> front side female / Back side female ? <br> 2 laboratory safety sockets 4 mm black, <br> unwired <br> 1 interface panel "PROFI NET" <br> $2 \times$ RJ45 socket 8 -pole, pluggable on both sides incl. 3 m patch cable |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-5A02DE.360.3020 <br> K5-5A02DE.360.5005 <br> K5-5A02DE.360.7021 |
| Power supply panel 1-phase with voltage drain <br> System voltage 1 / N / PE ~50 Hz 230 V 16 A $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Special configuration With black key-operated mushroom switch, designed as push-off <br> Equipment: <br> 1 key-operated switch, black <br> 1 phase indicator light <br> 3 Schuko sockets (type F) <br> 3 laboratory safety sockets |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-1A13DE. 480.3020 <br> K5-1A13DE. 480.5005 <br> K5-1A13DE. 480.7021 |

## Primus One

## System insert panels for didactics

## Technical data

| Description |  |  | Odering- No. |
| :---: | :---: | :---: | :---: |
| Power supply panel with Emergency off switch <br> System voltage 3 / N / PE ~50 Hz 400 V 16 A $W=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 5 Laboratory safety sockets <br> 1 Schuko socket (type F) <br> 1 Emergency off switch, unwired <br> 1 USB Socket <br> 1 RJ45 Cat6 throughput receptacles <br> 1 Cable outlet $\varnothing 60 \mathrm{~mm}$, black | $\begin{gathered} 0 \\ 6 \\ 6 \\ 6 \end{gathered}$ | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-5B00DE.480.3020 <br> K5-5B00DE.480.5005 <br> K5-5B00DE.480.7021 |
| Power supply panel <br> System voltage 3 / N / PE ~50 Hz 400 V 16 A $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 5 Laboratory safety sockets <br> 2 Schuko sockets (type F) <br> 1 CEE socket |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-5A02DE. 480.3020 <br> K5-5A02DE. 480.5005 <br> K5-5A02DE.480.7021 |

## Primus One

System insert panels for didactics

## Technical data

| Description |  |  | Odering- No. |
| :---: | :---: | :---: | :---: |
| Power supply panel <br> System voltage 3 / N / PE ~50 Hz 400 V 16 A $W=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 1 lighted rocker switch <br> 2 Schuko sockets (type F) <br> 1 Emergency off switch, unwired <br> 1 RJ45 Cat6 throughput socket <br> 1 Switched mode power supply with clocked output voltage $24 \mathrm{~V} / 6 \mathrm{~A}$ <br> Outputs to two safety-type laboratory sockets <br> Voltage display on LED specification: <br> Output power: 150 W <br> Residual ripple: $150 \mathrm{mVp}-\mathrm{p}$ <br> Output tolerance: $\pm 1.0$ \% <br> Input control: $\pm 0.5 \%$ <br> Load control: $\pm 0.5 \%$ <br> Overload predection |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-5A00DE.480.3020 <br> K5-5A00DE. 480.5005 <br> K5-5A00DE. 480.7021 |
| Power supply panel with emergency off switch <br> System voltage 3 / N / PE $\sim 50 \mathrm{~Hz} 400 \mathrm{~V} 16 \mathrm{~A}$ $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 5 Laboratory safety sockets <br> 1 Schuko sockets (type F) <br> 1 Emergency off switch, unwired <br> 1 RJ45 Cat6 throughput socket <br> 1 Switch mode power supply with clocked our put voltage $24 \mathrm{~V} / 6 \mathrm{~A}$ Outputs guidet on 2 laboratory safety sockets <br> Voltage indicator by LED <br> Spezifications: <br> Output power: 150 W <br> Residual ripple: 150 mVp -p <br> Output tolerance: $\pm 1.0$ \% <br> Input control: $\pm 0.5 \%$ <br> Load control: $\pm 0.5 \%$ <br> Overload predection |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-5B01DE. 480.3020 <br> K5-5B01DE. 480.5005 <br> K5-5B01DE. 480.7021 |

## Primus One

## System insert panels for didactics

## Technical data

| Description |  |  | Odering- No. |
| :---: | :---: | :---: | :---: |
| Power supply panel <br> System voltage 3 / N / PE ~50 Hz 400 V 16 A $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=480 \mathrm{~mm}$ <br> Equipment: <br> 5 Laboratory safety sockets <br> 3 Schuko sockets (type F) <br> 1 Quick connect coupling NW 5 1/8" <br> incl. 1 plug nipple NW 5 <br> for plastic tube 6/4 <br> 1 Switch mode power supply with clocked output voltage $24 \mathrm{~V} / 6 \mathrm{~A}$ <br> Switch mode power supply with clocked output voltage <br> Voltage indicator by LED <br> Spezifications: <br> Output power: 150 W <br> Residual ripple: $150 \mathrm{mVp}-\mathrm{p}$ <br> Output tolerance: $\pm 1.0$ \% <br> Input control: $\pm 0.5 \%$ <br> Load control: $\pm 0.5 \%$ <br> Overload predection |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-5A01DE. 480.3020 <br> K5-5A01DE. 480.5005 <br> K5-5A01DE.480.7021 |
| Power supply panel <br> System voltage 1 / N / PE ~50 Hz 230 V 16 A $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=120 \mathrm{~mm}$ <br> Equipment: <br> 1 Quick connect coupling NW 5 1/8" <br> incl. 1 plug nipple NW 5 <br> for plastic tube $6 / 4$ <br> 1 Switch mode power supply with clocked output voltage $24 \mathrm{~V} / 6 \mathrm{~A}$ <br> Switch mode power supply with clocked output voltage <br> Voltage indicator by LED <br> Spezifications: <br> Output power: 150 W <br> Residual ripple: $150 \mathrm{mVp}-\mathrm{p}$ <br> Output tolerance: $\pm 1.0 \%$ <br> Input control: $\pm 0.5 \%$ <br> Load control: $\pm 0.5 \%$ <br> Overload predection |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-5A00DE. 120.3020 <br> K5-5A00DE. 120.5005 <br> K5-5A00DE. 120.7021 |

## Primus One

## System insert panels for didactics

## Technical data

| Description |  |  | Odering- No. |
| :---: | :---: | :---: | :---: |
| Emergency-off panel $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=120 \mathrm{~mm}$ <br> Equipment: <br> 1 Emergency off switch, unwired |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-2B00DE. 120.3020 <br> K5-2B00DE. 120.5005 <br> K5-2B00DE. 120.7021 |
| Data panel $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=120 \mathrm{~mm}$ <br> Equipment: <br> 1 Univers-double-socket (RJ45)/8/8(8/8) Cat.6, shielded (unwired) |  | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-7A00DE. 120.3020 <br> K5-7A00DE. 120.5005 <br> K5-7A00DE. 120.7021 |
| Power supply panel <br> System voltage $1 / \mathrm{N} / \mathrm{PE} \sim 50 \mathrm{~Hz} 230 \mathrm{~V} 16 \mathrm{~A}$ $W=80 \mathrm{~mm}, \mathrm{H}=120 \mathrm{~mm}$ <br> Equipment: <br> 1 Illuminated rocker switch <br> 1 Schuko socket (type F) | $\square$ | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-2A00DE. 120.3020 <br> K5-2A00DE. 120.5005 <br> K5-2A00DE. 120.7021 |
| Power supply panel <br> System voltage 3 / N / PE ~50 Hz 400 V 16 A $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=120 \mathrm{~mm}$ <br> Equipment: <br> 5 Laboratory safety sockets | $\because$ | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-3A00DE. 120.3020 <br> K5-3A00DE. 120.5005 <br> K5-3A00DE. 120.7021 |

## Primus One

System insert panels for didactics

## Technical data

| Description |  | Odering- No. |
| :---: | :---: | :---: |
| Blank panel for closing off the rear profile $W=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | $\begin{aligned} & \text { K5-OLOOOO.523.3020 } \\ & \text { K5-OLOOOO.523.5005 } \\ & \text { K5-OLOOOO.523.7021 } \end{aligned}$ |
| Insert panel with cable outlet $\mathrm{W}=80 \mathrm{~mm}, \mathrm{H}=523 \mathrm{~mm}$ <br> Equipment: <br> Cable outlet $\varnothing 60 \mathrm{~mm}$, black | Front panel traffic red <br> Front panel signal blue <br> Front panel black grey | K5-0L0100.523.3020 <br> K5-0L0100.523.5005 <br> K5-0L0100.523.7021 |

## Cabinets

## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Complete cabinet with grooved mats <br> 2 Folding doors <br> 1 Handle with lock <br> 1 Central wall <br> $2 \times 6$ adjustable shelves <br> $2 \times 5$ sets of grooved mats for each 5 sections to store training equipment <br> also available with wireless technology (lockable by transponder) |  | $1020 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ | 07-1W |
| Complete cabinet with grooved mats <br> 2 folding doors, glazed the entire height of the door <br> 4 Shelves, one side with grooved mat <br> 8 Shelves both sides with grooved mat in $2 \times 5$ levels for DIN A4-Size |  | $1020 \mathrm{~mm} \times 600 \mathrm{~mm} \times 2045 \mathrm{~mm}$ | 07-1W Z01 |
| Tray cabinet <br> for experiment boxes <br> Basic element with 2-folding doors, handle with integrated safety lock. <br> Add-on element with 2-leaf doors, handle with integrated safety lock <br> Interior side walls with guide grooves to hold storage trays (2 pcs stowed successively) |  | $774 \mathrm{~mm} \times 680 \mathrm{~mm} \times 2045 \mathrm{~mm}$ <br> $755 \mathrm{~mm} \times 680 \mathrm{~mm} \times 2045 \mathrm{~mm}$ | $\begin{aligned} & 67-1 \mathrm{~A} \\ & 67-1 \mathrm{~B} \end{aligned}$ |
| Floor unit with section trays <br> Leaf doors on right or left with safety lock. Body inside with guide grooves on right and left. <br> For the storage of a maximum of 10 polystyrene moulded trays (experiment boxes, tools, installation material etc.) |  | $370 \mathrm{~mm} \times 680 \mathrm{~mm} \times$ table depth <br> Leaf doors right <br> For table depth 800/850 mm For table depth $900 / 950 \mathrm{~mm}$ For table depth 1000/1050 mm <br> Leaf doors right <br> For table depth $800 / 850 \mathrm{~mm}$ For table depth 900/950 mm For table depth 1000/1050 mm | 67-1D X01 $67-1 D \times 02$ <br> 67-1D X03 <br> 67-1E X01 67-1E X02 <br> 67-1E X03 |

## Accessories

Technical data

| Description |  |  | Ordering <br> no. |
| :--- | :--- | :--- | :--- |
| Tray insert <br> Section tray insert for the sto- <br> rage of tools (10 sections) |  | $310 \mathrm{~mm} \times 700 \mathrm{~mm} \times 35 \mathrm{~mm}$ | $67-2 \mathrm{~A}$ |
| Tray insert <br> Section tray insert for the sto- <br> rage of tools (13 sections) |  | $310 \mathrm{~mm} \times 700 \mathrm{~mm} \times 35 \mathrm{~mm}$ |  |
| Tray insert <br> Section tray insert for the sto- <br> rage of tools (12 sections) |  | $310 \mathrm{~mm} \times 700 \mathrm{~mm} \times 35 \mathrm{~mm}$ | $67-2 \mathrm{~B}$ |
| Tray insert universal <br> for the storage of measurement <br> equipment, small parts etc. <br> (4 sections) |  | $310 \mathrm{~mm} \times 700 \mathrm{~mm} \times 35 \mathrm{~mm}$ | $67-2 \mathrm{C}$ |

## Experimental frame

## Technical data

| Description |  |  |
| :--- | :--- | :--- | :--- |
| Experimental frame <br> 1 tier free-standing |  |  |

Patchboards, installation cubicles

## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Installation cubicle for wall mounting <br> Installation cubicle for carrying out practical installation exercises. The installation panels have a mesh of $5 \times 10 \mathrm{~mm}$ so that the installation materials can be mounted in any way desired. When not in use, the cubicles can simply be folded up and stored with minimum space requirement. <br> The entire cubicle is powdercoated in light grey RAL 7035. Mounting accessories are included for fixing to the wall. The installation cubicle can also be supplied as a free-standing unit. |  | $1200 \mathrm{~mm} \times 1000 \mathrm{~mm} \times 2000 \mathrm{~mm}$ | 60-5B |
| Mounting accessories Set 1 <br> Set 1 consisting of: 100 plugs $5 \mathrm{~mm} \times 5 \mathrm{~mm}$, 50 Spax screws $3,5 \mathrm{~mm} \times 12 \mathrm{~mm}$ 30 Spax screws $3,5 \mathrm{~mm} \times 20 \mathrm{~mm}$ 20 Spax screws $3,5 \mathrm{~mm} \times 30 \mathrm{~mm}$ |  |  | 65-2D |
| Mounting accessories Set 2 <br> Set 2 consisting of 100 plugs $5 \mathrm{~mm} \times 10 \mathrm{~mm}$, <br> 50 Spax screws $3,5 \mathrm{~mm} \times 12 \mathrm{~mm}$ <br> 30 Spax screws $3,5 \mathrm{~mm} \times 20 \mathrm{~mm}$ <br> 20 Spax screws $3,5 \mathrm{~mm} \times 30 \mathrm{~mm}$ |  |  | 65-2E |
| Clip-in perforated panel <br> 1× A4 suitable for hooking experimental frames and Patchboards. $\begin{aligned} & \mathrm{W}=752 \mathrm{~mm}, \mathrm{H}=312 \mathrm{~mm}, \\ & \mathrm{D}=45 \mathrm{~mm} \end{aligned}$ <br> Configuration: <br> - Perforated panel with perforation of $5 \mathrm{~mm} \times 10 \mathrm{~mm}$ <br> - left/right each 14 receptions for safety measurement cables <br> - with earthing socket |  |  | 77-5x $\times 01$ |

Experimental frame accessories

Technical data

|  |  | Ordering no |
| :---: | :---: | :---: |
| Description <br> Clip-in perforated panel $1 \times$ A4 suitable for hooking in experimental frames and Patchboards. <br> $W=766 \mathrm{~mm}, H=640 \mathrm{~mm}, \mathrm{D}=45 \mathrm{~mm}$ <br> Configuration: <br> - Perforated panel with perforation of $5 \times 10 \mathrm{~mm}$ <br> - left/right each <br> 32 receptions for safety with earthing socket |  | 77-5x $\times 02$ |
| Special plugs <br> Special plastic plugs <br> $5 \mathrm{~mm} \times 5 \mathrm{~mm}$ <br> 100 per pack <br> Special plastic plugs $5 \times 10 \mathrm{~mm}$, 100 per pack |  | 65-2F <br> 65-2G |
| Spax screws <br> 3. $5 \mathrm{~mm} \times 12 \mathrm{~mm}$ <br> 100 per pack <br> $3,5 \mathrm{~mm} \times 20 \mathrm{~mm}$ <br> 100 per pack <br> Spax screws <br> $3,5 \mathrm{~mm} \times 30 \mathrm{~mm}$ <br> 100 per pack |  | 65-2H <br> 65-2J <br> 65-2K |
| Brush strips <br> Brush strips for inserting into H sections for sound insulation during exercises with experimental boards. Each H-section requires two brush strips per tier. (price per metre) <br> Please specify required length or experimental frame type. |  | 65-2R |

3 HU Lowering technology system

## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Lowerable table superstructures 1-tier <br> Lowering mechanism, with superstructure that is vertically extended by electric motor drive, and with a safety shut-off strip. For accepting 3 HU Euro inserts. Prepared for addition of an EcoTecSP or InForm system table. Height of superstructure body in raised state: 1000 mm <br> For accepting 360HP <br> For accepting 318HP <br> For accepting 282HP <br> For accepting 258HP <br> For accepting 198HP |  | $2000 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1800 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1600 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1500 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ | $\begin{aligned} & \text { A4-1A } \\ & \text { A4-1B } \\ & \text { A4-1C } \\ & \text { A4-1D } \\ & \text { A4-1E } \end{aligned}$ |
| Lowerable table superstructures 2-tier <br> Lowering mechanism, with superstructure that is vertically extended by electric motor drive, and with a safety shut-off strip. <br> 1st tier: For accepting 3 HU Euro inserts. <br> 2nd tier: Shelf element with central wall and shelf panels. <br> Prepared for addition of an EcoTecSP or InForm system table. Height of superstructure body in raised state: <br> 1st tier: 1000 mm <br> 2st tier: 1340 mm <br> For accepting 360HP <br> For accepting 318 HP <br> For accepting 282 HP <br> For accepting 258 HP <br> For accepting 198HP |  | $2000 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1800 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1600 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1500 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ | A4-2A <br> A4-2B <br> A4-2C <br> A4-2D <br> A4-2E |

## 6 HU Lowering technology system

## Add-on tables

Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Lowerable table superstructures 1-tier <br> Lowering mechanism, with superstructure that is vertically extended by electric motor drive, and with a safety shut-off strip. For accepting 6 HU Euro inserts. Prepared for addition of an EcoTecSP or InForm system table. Height of superstructure body in raised state: 1135 mm <br> For accepting 15WU <br> For accepting 13WU <br> For accepting 12 WU <br> For accepting 11 WU <br> For accepting 8 WU |  | $2000 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1800 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1600 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1500 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ | A5-1A <br> A5-1B <br> A5-1C <br> A5-1D <br> A5-1E |
| Lowerable table superstructures 2-tier <br> Lowering mechanism, with superstructure that is vertically extended by electric motor drive, and with a safety shut-off strip. <br> 1st tier: For accepting System 6 HU inserts <br> 2nd tier: Shelf element with central wall and shelf panels. Prepared for addition of an EcoTecSP or InForm system table. Height of superstructure body in raised state: <br> 1st tier: 1135 mm <br> 2nd tier: 1340 mm <br> For accepting 15 WU <br> For accepting 13 WU <br> For accepting 12 WU <br> For accepting 11 WU <br> For accepting 8WU |  | $2000 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1800 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1600 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1500 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ $1200 \mathrm{~mm} \times 432 \mathrm{~mm} \times 780 \mathrm{~mm}$ | A5-2A <br> A5-2B <br> A5-2C <br> A5-2D |
| Add-on tables for lowering technology for 3 HU and 6 HU System <br> EcoTecSP add-on table prepared for connecting to lowering mechanism types of the A4... and A5... series. Table frame with welded steel tube apron frame and screwattached steel tube table legs $50 \mathrm{~mm} \times 50 \mathrm{~mm}$. Table top 30 mm thick, with replaceable front edge. |  | $2000 \mathrm{~mm} \times 668 \mathrm{~mm} \times 780 \mathrm{~mm}$ <br> $1800 \mathrm{~mm} \times 668 \mathrm{~mm} \times 780 \mathrm{~mm}$ <br> $1600 \mathrm{~mm} \times 668 \mathrm{~mm} \times 780 \mathrm{~mm}$ <br> $1500 \mathrm{~mm} \times 668 \mathrm{~mm} \times 780 \mathrm{~mm}$ <br> $1200 \mathrm{~mm} \times 668 \mathrm{~mm} \times 780 \mathrm{~mm}$ | $\begin{aligned} & \text { A2-1A } \\ & \text { A2-1B } \\ & \text { A2-1C } \\ & \text { A2-1D } \\ & \text { A2-1E } \end{aligned}$ |

Lowering technology system / TFT
Add-on tables

Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Lowering unit for IT training <br> Lowering mechanism with electric motordriven vertically raisable and lowerable TFT monitor brackets and storage areas for mouse and keyboard. <br> Floor-mounted wooden body 19 mm thick with automatically actuated covering flap. Controlled via cable remote control, attached to the unit. Monitor mounted with VESA adaptation $75 \times 75 \mathrm{~mm}$ or $100 \times 100 \mathrm{~mm}$ for TFT sizes up to 19 inches, with a maximum depth of 80 mm . Body of unit has integrated cable admission inlet for routing of cables. <br> Student versions: Lowering system body for 2 TFT monitors Lowering system body for 2 TFT monitors Lowering system body for 2 TFT monitors <br> Teacher versions: Lowering system body for 2 TFT monitors Monitor positioning optional left, centre, right |  | $2000 \mathrm{~mm} \times 170 \mathrm{~mm} \times 750 \mathrm{~mm}$ <br> $1800 \mathrm{~mm} \times 170 \mathrm{~mm} \times 750 \mathrm{~mm}$ <br> $900 \mathrm{~mm} \times 170 \mathrm{~mm} \times 750 \mathrm{~mm}$ <br> $1800 \mathrm{~mm} \times 170 \mathrm{~mm} \times 750 \mathrm{~mm}$ | A8-1A <br> A8-1B <br> A8-1F <br> A8-1BZ |
| Add-on tables for TFT unit <br> EcoTecSP add-on table prepared for connecting to lowering mechanism types with TFT monitor brackets. Table frame with welded steel tube apron frame and screwattached steel tube table legs $50 \times 50 \mathrm{~mm}$. <br> Table top 30 mm thick with replaceable front edge. |  | $2000 \mathrm{~mm} \times 630 \mathrm{~mm} \times 750 \mathrm{~mm}$ $1800 \mathrm{~mm} \times 630 \mathrm{~mm} \times 750 \mathrm{~mm}$ $900 \mathrm{~mm} \times 630 \mathrm{~mm} \times 750 \mathrm{~mm}$ | $\begin{aligned} & \text { A1-2A } \\ & \text { A1-2B } \\ & \text { A1-2F } \end{aligned}$ |

Insert panels 19"

Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Floor unit <br> Classroom power supply EcoTec ${ }^{\text {SP }}$ <br> Floor unit prepared for accepting the 19 " / 14 HU grid system. With front leaf doors shortened at the top, right-hung, with lock. The floor unit is divided in depth by a central panel. The rear compartment is used as connecting space for the cables and wires which are wired to terminal blocks. Access via leaf door in left side wall, lockable. |  | $525 \mathrm{~mm} \times 750 \mathrm{~mm} \times 710 \mathrm{~mm}$ | A7-8C |
| Floor unit <br> Classroom power supply EcoTec ${ }^{\text {SP }}$ <br> Floor unit prepared for accepting the 19" / 14 HU grid system. With front leaf doors shortened at the top, left-hung, with lock. The floor unit is divided in depth by a central panel. The rear compartment is used as connecting space for the cables and wires which are wired to terminal blocks. Access via leaf door in right side wall, lockable. |  | $525 \mathrm{~mm} \times 750 \mathrm{~mm} \times 710 \mathrm{~mm}$ | A7-8D |
| Floor unit <br> Classroom power supply InForm <br> Floor unit prepared for accepting the 19 " / 13 HU grid system. With front leaf doors shortened at the top, right-hung, with lock. The floor unit is divided in depth by a central panel. The rear compartment is used as connecting space for the cables and wires which are wired onto terminal blocks. Access via leaf door in left side wall, lockable. |  | $525 \mathrm{~mm} \times 620 \mathrm{~mm} \times 680 \mathrm{~mm}$ <br> $525 \mathrm{~mm} \times 720 \mathrm{~mm} \times 680 \mathrm{~mm}$ <br> $525 \mathrm{~mm} \times 820 \mathrm{~mm} \times 680 \mathrm{~mm}$ | $\begin{aligned} & \text { A7-8F } \\ & \text { A7-8G } \\ & \text { A7-8H } \end{aligned}$ |

Technical data


Insert panels 19"
Lowering mechanism controls

## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Circuit predection unit 3-phase current <br> 19" / 8 HU insert panel circuit predection unit for 3 -pole power supply to student's table. With cut-out and lettering to accept a maximum of $21 \times 3$-pole automatic circuit breakers. Empty spaces are provided with covers. The panel is pre-wired to terminal blocks. |  | $483 \mathrm{~mm} \times 354,8 \mathrm{~mm}$ <br> $\mathrm{Z}=$ Please state the number of automatic circuit breakers required. | 68-1M.373... |
| Central up/down control for lowerable superstructures <br> Operating panel with push buttons for up/stop/down control of lowerable superstructures 19" / 2 HU insert panel. Depending on the lowerable superstructures provided, 3 push buttons are installed per table. Using a group function, all lowerable superstructures can be jointly controlled. |  | $483 \mathrm{~mm} \times 88,1 \mathrm{~mm}$ <br> $Z=$ Please state the number of operating buttons required for the lowering mechanism. | 68-11.3Z.. |
| Central up/down control for fold-away mechanism <br> Operating panel with push buttons for up/stop/down control of fold-away superstructures 19" / 2 HU insert panel Depending on the lowerable superstructures provided, 3 push buttons are installed per table. Using a group function, all fold-away superstructures can be jointly controlled. | -io | $483 \mathrm{~mm} \times 88,1 \mathrm{~mm}$ <br> $\mathrm{Z}=$ Please state the number of operating buttons required for the folding mechanism! | 68-1X.374 |
| Local up/down control with key for lowering mechanisms <br> Individual control up/down with key switch on table. Installed in plastic housing. <br> (Not usable for TFT technology) |  | $104 \mathrm{~mm} \times 51 \mathrm{~mm} \times 68 \mathrm{~mm}$ | A7-8S |

Lowering technology TFT add on tables

## Technical data

| Description |  |  | Ordering no. |
| :---: | :---: | :---: | :---: |
| Control unit up-down-control <br> of electrical linear drive for Primus One superstruktures with swing mechanism. Installed at the front of base body of table. |  |  | A7-8S 7601 |
| Blank panels 19" |  |  |  |
| Blank plate 19"/1 HE |  | $W=483 \mathrm{~mm} \times \mathrm{H}=43,6 \mathrm{~mm}$ | 51-1A |
| Blank plate 19" / HE with ventilation slots |  | $W=483 \mathrm{~mm} \times \mathrm{H}=43,6 \mathrm{~mm}$ | 51-1L |
| Blank plate 19"/2 HE |  | $W=483 \mathrm{~mm} \times \mathrm{H}=88,1 \mathrm{~mm}$ | 51-1B |
| Blank plate 19"/3HE |  | $W=483 \mathrm{~mm} \times \mathrm{H}=132,5 \mathrm{~mm}$ | 51-1C |
| Blank plate 19"/4HE |  | $\mathrm{W}=483 \mathrm{~mm} \times \mathrm{H}=177 \mathrm{~mm}$ | 51-1E |
| Blank plate 19"/6HE |  | $\mathrm{W}=483 \mathrm{~mm} \times \mathrm{H}=266 \mathrm{~mm}$ | 51-1D |

Working environments for people with ideas.
euromicron Gruppe


[^0]:    Note:
    Including system carrier
    Orga panel available separately

[^1]:    Elabo Ordering Catalogue 138

[^2]:    Preparation of test plan
    Block administration
    Template administration

[^3]:    Highlights
    Master-slave operation
    Parallel operation (0-4 A)
    Serial operation ( $0-60 \mathrm{~V}$ )
    Tracking operation ( $\pm 30 \mathrm{~V}$ )
    Predefined curve progressions for sine, square, triangle, sawtooth, PWM
    Arbitrary function for free programming of voltage and current progressions
    Qutput limitation, password-predected
    Predefinable power-ON values
    Ethernet and USB interfaces
    Integrated web server for simple remote control via web browser 1 or 2 channels

[^4]:    Areas of application
    Areas of application
    Remotely controlled switching from various measuring points to a central measuring device Areas of application Remotely controlled switching from various measuring points to a ce
    Measured data recording Integration of analog signals in the measurement process and documentation of the result
    Actuator control Actuators with analog input signals can be integrated into measurement processes

[^5]:    N2-1A
    Elution ${ }^{\oplus}$ Device driver Single test devices

[^6]:    orking temperature

[^7]:    More technical details can be found in the Keysight data sheets.

