

Light Source

FLS-300



Multifunctional light source: up to three singlemode wavelengths on a single port, or four wavelengths (two multimode, and two singlemode) on two ports

Power autonomy of 120 hours

Highest output power in the industry

Three-year warranty and recommended calibration interval, for dramatically reduced cost of ownership

Ergonomic, eye-catching handheld package

The FLS-300 Light Source is part of EXFO's new line of handheld units, which includes the FPM-300 Power Meter and the FOT-300 Optical Loss Test Set.

Auto-Wavelength Recognition

The FLS-300 Light Source can transmit with a wavelength-identification digital encrypted protocol, so that any compatible unit—the FPM-300 Power Meter and the FOT-300 Optical Loss Test Set—can automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

Distant Referencing

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

FTTx Ready

EXFO's FLS-300 allows for the testing of passive optical networks (PONs) at 1310 nm, 1490 nm and 1550 nm, the three ITU-T G.983.3 recommended wavelengths for PONs.

Fiber-optic T&M,
monitoring, manufacturing
and assembly solutions



Specifications¹

Model ²	23BL	234BL	235BL	12D	01-VCL
Central wavelength (nm)	1310 ± 20 1550 ± 20	1310 ± 20 1550 ± 20 1625 ± 15	1310 ± 20 1490 ± 10 1550 ± 20	850 ± 25 1300 +50/-10	850 ± 20
Spectral width ³ (nm)	≤ 5	≤ 5	≤ 5	50/135	≤ 1
Output power (dBm)	≥ 1/≥ 1	≥ 1/≥ -3/≥ -5	≥ 1/≥ -4.5/≥ -3	≥ -18/≥ -18 (62.5/125 μm)	≥ -3 (50/125 μm)
Power stability ⁴ (dB)					
8 hours	± 0.10	± 0.10	± 0.10	± 0.10	± 0.25
Battery life ⁵ (hours)	120	100	120	120	250
Enables automatic wavelength recognition	Yes	Yes	Yes	Yes	Yes
Tone generation (Hz)	270, 1 k, 2 k	270, 1 k, 2 k	270, 1 k, 2 k	270, 1 k, 2 k	270, 1 k, 2 k
Warranty and recommended calibration interval (years)	3	3	3	3	3

General Specifications

Size (H x W x D)	18.5 cm x 10.0 cm x 5.5 cm	(7 ¹ / ₄ in x 4 in x 2 ¹ / ₈ in)
Weight	0.4 kg	(0.9 lb)
Temperature operating	-10 °C to 50 °C	(14 °F to 122 °F)
storage	-40 °C to 70 °C	(-40 °F to 158 °F)
Relative humidity	0 % to 95 % non-condensing	

Notes

1. Guaranteed unless otherwise specified.
2. All specifications valid at 23 °C ± 1 °C, with an FC connector.
3. rms for lasers and -3 dB width for LEDs; typical values for LEDs.
4. After 15 minutes warmup; expressed as ± half the difference between the maximum and minimum values measured during the period, with an APC connector on the power meter.
5. Typical autonomy in Auto mode.

Standard Accessories

User guide, Certificate of Calibration, instrument stickers in six languages, AC adapter, three AA batteries, wrist strap, alcohol cleaning pads.

Safety

21 CFR 1040.10 and IEC 60825-1:1993+A1:1997+A2:2001:
CLASS 1M LASER PRODUCT

Ordering Information

FLS-300-XX-XX

Model

FLS-300-01-VCL = 850 nm VCSEL 50/125 μm
 FLS-300-12D = 850/1300 nm LED 62.5/125 μm
 FLS-300-23BL = 1310/1550 nm laser 9/125 μm
 FLS-300-234BL = 1310/1550/1625 nm laser 9/125 μm
 FLS-300-235BL = 1310/1490/1550 nm laser 9/125 μm
 FLS-300-12D-23BL = 850/1300 nm LED 62.5/125 μm, 1310/1550 nm laser 9/125 μm
 Example: FLS-300-234BL-El-EUI-89

Connector

50 = FC/PC¹
 54 = SC/PC¹
 74 = ST/PC¹
 89 = FC/UPC²
 90 = ST/UPC²
 91 = SC/UPC²

El-EUI-28 = UPC/DIN 47256
 El-EUI-76 = UPC/HMS-10/AG
 El-EUI-89 = UPC/FC narrow key
 El-EUI-90 = UPC/ST
 El-EUI-91 = UPC/SC
 El-EUI-95 = UPC/E-2000
 EA-EUI-28 = APC/DIN 47256²

EA-EUI-89 = APC/FC narrow key²
 EA-EUI-91 = APC/SC²
 EA-EUI-95 = APC/E-2000²

Note:
¹ Multimode only
² Singlemode only

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our website at www.exfo.com.

Rugged Handheld Solutions

- OLTS
- Power Meter
- Light Source
- Talk Set

UNIVERSAL TEST SYSTEM

- OTDR
- OLTS
- ORL
- Switch

Optical Fiber

- OSA
- PMD
- Chromatic Dispersion Analyzer
- Multiwavelength Meter

DWDM Test Systems

Protocol

- 10/100 and Gigabit Ethernet
- SONET/SDH (DSO to OC-192c)
- SDH/PDH (64 kb/s to STM-64c)

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