Optical Guardian

OG-5240

- High-performance instrument-grade OSA
- Continuously monitors up to 32 DWDM signals
- Offers full remote operation
- Alarm forwarding to terminal, pager, e-mail or cell phone

Access Information Immediately

EXFO's Optical Guardian is the only RTU on the market with its own built-in screen, providing easy access to critical information without the hassle of connecting a PC.

Continuous User-Configurable Testing

Equipped with software that continuously executes a user-configurable test routine on each optical port, the Optical Guardian issues an alarm whenever any of the monitored parameters (OSNR, optical power, wavelength), on any of the optical carriers, oversteps a predefined range.

Improve Time to Restoration

Thanks to Optical Guardian's direct alarm-forwarding feature, time to restoration is considerably improved as the system communicates directly with on-duty personnel via VT100 Terminal, pager, cell phone or e-mail. Network status information is supplied to technicians, no matter where they are located, resulting in efficient, effective system troubleshooting.

Maximize Versatility

Optical Guardian incorporates EXFO's proven modular architecture. Use it as a stand-alone solution, or integrate it with other remote test units as part of a client/server architecture-network monitoring system. Optical Guardian can be managed by our Element Management System, FiberVisor.

Optical Guardian is part of a complementary family of EXFO products that provides the level of network monitoring you require. These products include Fiber Guardian, a solution designed for physical-layer monitoring and Network Guardian™ G2, for protocol-layer monitoring.

Fiber-optic test, measurement and monitoring instruments

EXFO

Specifications[1]

Number of monitored DWDM signals	1, 2, 4, 8, 12, 16 or 32
Maximum number of optical channels per DWDM signal	200
Wavelength range	1250 nm to 1650 nm (O-, E-, S-, C- and L-bands)
Minimum channel spacing	25 GHz
Wavelength alarm threshold resolution	0.001 nm
Optical power range[2]	+18 dBm to –75[3, 4] dBm
Optical power alarm threshold resolution	0.01 dB
Optical rejection ratio	50 dB typical at 50 GHz[4]
OSNR alarm threshold resolution	0.01 dB
Number of alarm thresholds per type of alarm	3 (minor, major and critical)
Optical switch insertion loss	0.7 dB typical
Optical switch crosstalk	–80 dB maximum
Required rackmount space	With 1 port (or no switch): 10 U, 44.45 cm (17.5 in) With 2 to 32 port switch: 18 U, 80.01 cm (31.5 in)
Power	100 VA at 115/230 VAC (50/60 Hz) (RTU mainframe) 175 VA at 115/230 VAC (50/60 Hz) (RTU expansion unit)

Notes

1. All specifications are for temperature of 23 °C ± 2 °C with a FC/UPC connector unless otherwise specified, after warmup.
2. Typical. Linearity is ± 0.1 dB from 5 dBm to -50 dBm.
3. With averaging.
4. Within the C- and L-bands.

Ordering Information

OG-5240-XX-XX-XX

XX Switch ports
00 = 1 port
02 = 2 ports
04 = 4 ports
08 = 8 ports
12 = 12 ports
16 = 16 ports
32 = 32 ports

XX Connectors available
58 = FC/APC
88 = SC/APC
89 = FC/UPC
91 = SC/UPC

XX Width
19 = 19 inch rackmount
23 = 23 inch rackmount

Key Features

- Built-in local user interface
- 10-baseT Ethernet port
- Alarm forwarding and remote operation via PSTN and/or Ethernet port
- Intuitive GUI
  - Provides alarm management functionality
  - Allows the manual operation of the OSA as a field instrument

Accessories

RFTS-Power-01-19	110 VA Power Bar (no inverter) c/w 19 in rackmount kit
RFTS-Power-01-23	110 VA Power Bar (no inverter) c/w 23 in rackmount kit
RFTS-Power-02-19	220 VA Power Bar (no inverter) c/w 19 in rackmount kit
RFTS-Power-02-23	220 VA Power Bar (no inverter) c/w 23 in rackmount kit
RFTS-Power-03-19	-48 V DC to 110 VAC inverter c/w 19 in rackmount kit
RFTS-Power-03-23	-48 V DC to 110 VAC inverter c/w 23 in rackmount kit
RFTS-Power-04-19	-48 V DC to 220 VAC inverter c/w 19 in rackmount kit
RFTS-Power-04-23	-48 V DC to 220 VAC inverter c/w 23 in rackmount kit
RFTS-WDM-01-xx	1310 nm/1550 nm/1625 nm WDM couplers (inserted into shelf)
RFTS-FILTER-01-xx	Bandpass filter (inserted into shelf) – 1310 nm/1550 nm Pass, 1625 nm Block filter
RFTS-FILTER-02-xx	Bandpass filter (inserted into shelf) 1310 nm/1550 nm Block, 1625 nm Pass filter
RFTS-WDM-Shelf-19	19 in rackmount shelf for WDM and filter components
RFTS-WDM-Shelf-23	23 in rackmount shelf for WDM and filter components

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