

# 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

# Specifications<sup>1</sup>

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 <sup>2</sup>	+18 dBm to -75 <sup>3,4</sup> dBm
Optical power alarm threshold resolution	0.01 dB
Optical rejection ratio	50 dB typical at 50 GHz <sup>4</sup>
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

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

# Ordering Information

## OG-5240-XX-XX-XX

<b>XX Switch ports</b>	<b>XX Connectors available</b>	<b>XX Width</b>
00 = 1 port	58 = FC/APC	19 = 19 inch rackmount
02 = 2 ports	88 = SC/APC	23 = 23 inch rackmount
04 = 4 ports	89 = FC/UPC	
08 = 8 ports	91 = SC/UPC	
12 = 12 ports		
16 = 16 ports		
32 = 32 ports		

# 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 OTDR as a field instrument

# Accessories

RFTS-Power-01-19	110 VA Power Bar (no inverter) e/w 19 in rackmount kit
RFTS-Power-01-23	110 VA Power Bar (no inverter) e/w 23 in rackmount kit
RFTS-Power-02-19	220 VA Power Bar (no inverter) e/w 19 in rackmount kit
RFTS-Power-02-23	220 VA Power Bar (no inverter) e/w 23 in rackmount kit
RFTS-Power-03-19	-48 V DC to 110 VAC inverter e/w 19 in rackmount kit
RFTS-Power-03-23	-48 V DC to 110 VAC inverter e/w 23 in rackmount kit
RFTS-Power-04-19	-48 V DC to 220 VAC inverter e/w 19 in rackmount kit
RFTS-Power-04-23	-48 V DC to 220 VAC inverter e/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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