SPEC SHEET

FOT-600

OPTICAL LOSS TEST SET (OLTS)

The FOT-600 optical loss test set (OLTS) combines singlemode light source and power meter capabilities in one compact and rugged form factor. Ideal for automated link qualification; it has a memory capacity of 1000 data items and enables data transfer to a PC via USB connection.

FTTx
Test solutions

KEY FEATURES

- Combines a power meter and a light source
- Memory capacity of 1000 data items; enables data transfer to a PC via USB connection
- Ideal for network-link qualification: pass/fail LED indicator and thresholds
- Error-free testing: automatic wavelength switching, and no offset nulling required
- Visual fault locator (VFL) option for quick and easy troubleshooting (standard)
- Three-year recommended calibration interval for reduced cost of ownership
- Power meter calibrated at 42 wavelengths
- Works with FastReporter reporting software

RELATED PRODUCTS

Fiber inspection scope
FIP-400B (Wi-Fi or USB)

Fiber inspection scope
FIP-500

FastReporter

Data post-processing software
FastReporter

EXFO

IDEAL FOR NETWORK-LINK QUALIFICATION

The FOT-600 OLTS is the ideal tool for network-link qualification. Designed for first-class ease of use, the FOT-600 features a pass/fail LED indicator; what's more, it lets you set your own thresholds for absolute or relative loss measurements.

Thanks to its memory capacity of 1000 data items and its built-in reporting software, the FOT-600 facilitates data management and enables data transfer to a PC via USB connection. Create and customize a complete test report, including certification of the link with pass/fail information.

ERROR-FREE TEST FEATURES IN A HIGHLY VERSATILE UNIT

When using the FOT-600 in Auto-Switching mode, the light source automatically toggles between available wavelengths. The power meter recognizes the wavelength in use and switches to the proper calibration parameter. With a press of a button, you can store results for all wavelengths at once, providing easy and error-free testing.

Thanks to its unique design, the FOT-600 OLTS reduces risk of error and measurement time in typical measurement situations, as the need for an offset nulling is eliminated.

In addition to network-link qualification features, the highly accurate FOT-600 offers over 40 calibrated wavelengths, including all CWDM wavelengths. What's more, it lets you measure power fluctuations with its Hold Min/Max Power function.

FTTx-READY

EXFO's FOT-600 allows for the testing of passive optical networks (PONs) at 1310 nm, 1490 nm and 1550 nm, the three wavelengths recommended by the ITU-T (G.983.3) for PONs.

RUGGED AND VERSATILE

Like all EXFO portable instruments, the FOT-600 is built for top ruggedness and versatility, perfect for the harshest test conditions. It features a keypad/LCD backlight, for easy operation in darker environments. What's more, it is powered by a rechargeable battery.

FastReporter
Data post-processing software

INCLUDED: ADVANCED FASTREPORTER CAPABILITIES

FastReporter is a consolidated data management and postprocessing solution designed to improve results quality as well as auditing and reporting productivity. When logging onto EXFO Exchange on your tester, you will have access to all advanced FastReporter capabilities, including:

- Results viewer
- Advanced reporting formats (Excel, PDF, custom)
- Advanced editing
- Automated validation and results correction

EXFO

SPECIFICATIONS [a]		
Detector		GeX
Power range (dBm) [b]		26 to −55
Wavelength range (nm)		800 to 1650
Calibrated wavelengths (nm)		800, 820, 830, 840, 850, 860, 870, 880, 910, 980, 1060, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1370, 1390, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650
Power uncertainty [c]		±5 % ± 3 nW
Resolution (dB)		±0.01 (26 dBm to −45 dBm)
Automatic offset nulling [d]		Yes
Display units		dB, dBm, W
Tone generation and detection		270 Hz, 1 kHz, 2 kHz
Auto-switching [e]		Yes
Warm-up period (min) [f]		0
Data storage (items)		≥1000
Battery life (hours) (typical)		72 (power meter mode) 50 (source or OLTS in auto mode)
Central wavelength (nm)		1310 ± 20 1550 ± 20
Spectral width (nm) [g]		≤5
Output power (dBm)		≥1
Power stability (dB) [h]	15 min 8 h	±0.03 ±0.1
Automatic wavelength recognition		Yes
Recommended calibration period (years)		3
Warranty (year)		1

a. Guaranteed unless otherwise specified. All specifications valid at 23 °C ± 1 °C, with an FC connector and at 1550 nm for detector.

b. In continuous wave (CW) mode; sensitivity defined as 6 × rms noise level.

c. For calibration wavelengths. Valid up to 20 dBm.

d. For power > −25 dBm.

e. At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm; for power > −40 dBm (typical).

f. For a variation of ≤ 0.06 dB at power levels ≥ −25 dBm.

g. rms for FP lasers.

h. After a 15-minute warm-up period, and using an APC connector on the power meter (except for multimode sources, for which a PC connector is used). Expressed as ± half the difference between the maximum and minimum values measured during the period.

GENERAL SPECIFICATIONS

Size (H × W × D)		190 mm × 100 mm × 62 mm (7 ½ in × 4 in × 2 ½ in)
Weight		0.48 kg (1.1 lb)
Temperature	Operating Storage	–10 °C to 50 °C (14 °F to 122 °F) –40 °C to 70 °C (–40 °F to 158 °F)
Relative humidity		0 % to 95 % non-condensing

STANDARD ACCESSORIES

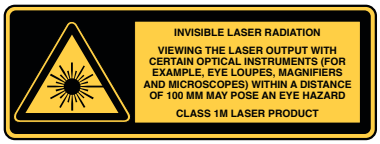
User guide, certificate of calibration, instrument stickers in six languages, AC adapter/charger, connector adapter (FOA-XX), lithium ion battery, shoulder strap, carrying case, USB cable, reporting software.

VFL [a]

Emitter type	Laser
Wavelength (nm)	650
Output power (dBm)	3

a. Typical values in 62.5/125 µm fiber.

LASER SAFETY



ORDERING INFORMATION

FOT-602X-23BL-XX-XX-VFL

Model
FOT-602X-23BL = High-power Ge detector, 1310/1550 nm laser source 9/125 µm

Connector adapter
FOA-12 = Biconic
FOA-14 = D4, D4/PC
FOA-16 = SMA/905, SMA/906
FOA-22 = FC (PC/SPC/UPC/APC), NEC-D3
FOA-28 = DIN 47256 (LSA): DIN 47256 (PC/APC)
FOA-32 = ST (PC/SPC/UPC)
FOA-40 = Diamond HMS-0HFS-3 (3.5 mm)
FOA-54 = SC (PC/SPC/UPC/APC)
FOA-76 = FSMA HMS-10/AG, HFS-10/AG
FOA-78 = Radiall EC
FOA-84 = Diamond HMS-10, HFS-13
FOA-96B = E-2000
FOA-98 = LC
FOA-99 = MU

Visual fault locator
VFL = Visual fault locator (universal 2.5 mm connector)

Connector
EI-EUI-28 = UPC/DIN 47256
EI-EUI-76 = UPC/HMS-10/AG
EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST
EI-EUI-91 = UPC/SC
EI-EUI-95 = UPC/E-2000

Example: FOT-602X-23BL-FOA-22-EI-EUI-89-VFL

EXFO headquarters **T** +1 418 683-0211 **Toll-free** +1 800 663-3936 (USA and Canada)

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

  Printed in Canada 25/08