FOT-600

OPTICAL LOSS TEST SET (OLTS)

■ The FOT-600 optical loss test set (OLTS) offers various configurations and wavelength choices, ideal for link qualification; it has a memory capacity of 1000 data items and enables data transfer to a PC via USB connection.

FTTx Test solutions

FROST & SULLIVAN

2014 BEST PRACTICES AWARD

GLOBAL
PORTABLE FIBER OPTIC TEST EQUIPMENT
MARKET LEADERSHIP AWARD

KEY FEATURES

Combines a power meter and a light source and comes with your choice of wavelengths

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)

Low cost of ownership: three-year warranty and recommended calibration interval

Complete reporting software

EXFO

IDEAL FOR NETWORK-LINK QUALIFICATION

Part of EXFO's 600 handheld series, which includes the FPM-600 power meter and the FLS-600 light source, 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.
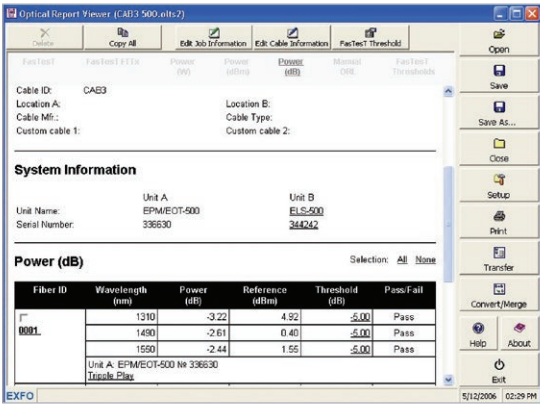
RUGGED AND VERSATILE

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.

REPORTING SOFTWARE

This new software tool enables you to produce professional-looking reports with comprehensive documentation. It also offers these functionalities:
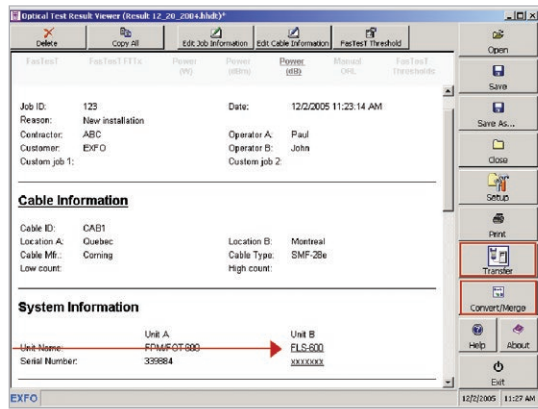
- Two test files can be merged into one test report (see note 3)
- Pass/fail thresholds that are active during download are automatically activated and displayed in the Report Viewer
- One-touch storage of results for all wavelengths at once (see note 1)
- Unit B configuration information can be input and documented (see note 2)
- Data transfer can be launched from the Report Viewer window (see note 3)
- A pass/fail threshold can be set for an individual fiber or wavelength (see note 4)
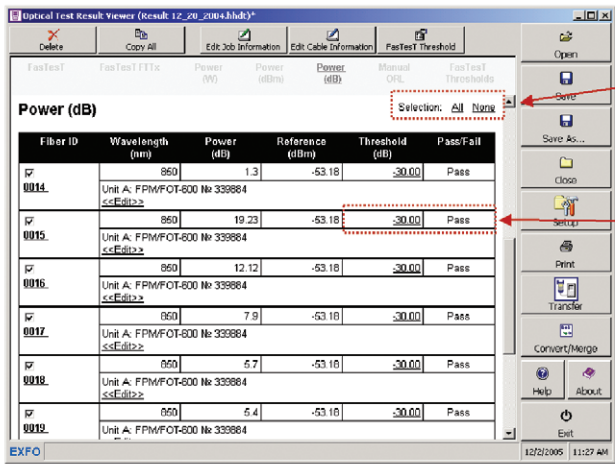
1 Store test results for all wavelengths at once

Optical Report Viewer: main window

2 Configure unit B information

Optical Report Viewer: main window

3 Launch data transfer and connector merger

Optical Report Viewer: main window

Select all or no results in a specific section

④

Apply a specific threshold each fiber and/ or lambda and get a complete pass/fail status (not available with FasTesT results)

SPECIFICATIONS [a]

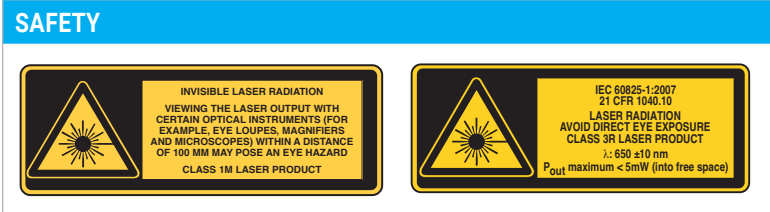| Model	FOT-602X
Detector	GeX
Power range (dBm) [b]	26 to −55
Wavelength range (nm)	800 to 1650
Calibrated wavelengths (nm)	800, 820, 830, 840, 850, 860, 870, 880, 910, 980, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1370, 1390, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1060
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 detection	270 Hz, 1 kHz and 2 kHz
Auto-switching [e]	Yes
Warm-up period (min) [f]	0
Data storage (items)	More than 1000
Battery life (hours) (typical)	72
Warranty and recommended calibration period	3 years
Model	**23BL**
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
Tone generation	270 Hz, 1 kHz, 2 kHz
Automatic wavelength recognition	Yes
Battery life (hours) (typical in Auto mode)	50
Warranty and recommended calibration period	3 years

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 CW mode; sensitivity defined as 6 x rms noise level.

c. For calibration wavelengths. Valid up to 20 dBm for FOT-602X.

d. For power > −25 dBm for FOT-602X.

e. At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm; for power > −40 dBm (typical) for FOT-602X.

f. For a variation of ≤ 0.06 dB at power levels ≥ −25 dBm for FOT-602X.

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.

EXFO

GENERAL SPECIFICATIONS

Size (H x W x D)		190 mm x 100 mm x 62 mm (7 ½ in x 4 in x 2 ½ in)
Weight		0.48 kg (1.1 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

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.

SAFETY

INVISIBLE LASER RADIATION
VIEWING THE LASER OUTPUT WITH CERTAIN OPTICAL INSTRUMENTS (FOR EXAMPLE, EYE LOUPES, MAGNIFIERS AND MICROSCOPES) WITHIN A DISTANCE OF 100 MM MAY POSE AN EYE HAZARD
CLASS 1M LASER PRODUCT

IEC 60825-1:2007
21 CFR 1040.10
LASER RADIATION
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT
λ: 650 ±10 nm
P_{out} maximum < 5mW (into free space)

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

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