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Test & Measurement

- > sales
- > rentals
- > calibration
- > repair
- > disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



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Product Lifecycle Management System

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600

NETWORK TESTING

POWER METER FPM-600



- High accuracy, wide dynamic range and high power measurement capability (up to 26 dBm)
- Memory capacity of 1000 data items; enables data transfer to a PC via USB connection
- User-configurable pass/fail thresholds with LED indicator
- Over 40 calibrated wavelengths, and Hold Min/Max Power function
- Rechargeable batteries
- Visual fault locator (VFL) option for quick and easy troubleshooting
- Error-free, time-saving test features: automatic wavelength switching, no offset nulling
- Low cost of ownership: three-year warranty and recommended calibration interval



Part of EXFO's 600 handheld series, which includes the FOT-600 Optical Loss Test Set, and the FLS-600 Light Source, the highly versatile FPM-600 Power Meter is designed for link and system qualification. Its green/red LED indicator gives you a pass or fail test verdict according to the thresholds you have defined, for faster and easier field operation.

Thanks to its memory capacity of 1000 data items and its reporting software, the FPM-600 facilitates data management and enables data transfer to a PC via USB connection. Build a complete test report, including certification of the link with pass/fail information. Customize this report to your own needs.



Suited for All Network Types

The FPM-600 is a very powerful tool for the most demanding applications such as high-speed DWDM or CWDM network qualification. With more than 40 calibrated wavelengths, including all CWDM wavelengths, it allows for user-defined measurement wavelengths, using the interpolation method between calibrated points. Use its Hold Min/Max Power function to measure system power burst or fluctuations.

Error-free, Time Saving Test Features

When used in combination with a FLS-600 Light Source in Auto-Switching mode, the power meter automatically recognizes the wavelength in use and switches to the proper calibration parameter. At the press of a button, you can store results for all wavelengths at once.



FTTx Ready

EXFO's FPM-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 FPM-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.



www.EXFO.com

Telecommunications Test and Measurement

EXFO
EXPERTISE REACHING OUT

Power Meter

SPECIFICATIONS¹

| Model | FPM-602 | FPM-602X |
|---|--|---|
| Detector | Ge | GeX |
| Power range (dBm) ² | 10 to -70 | 26 to -55 |
| Wavelength range (nm) | 800 to 1650 | 800 to 1650 |
| Calibrated wavelengths (nm) | 800, 820, 830, 840, 850, 860, 870, 880, 910, 980, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1370, 1390, 1410, 1430, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650 | Same calibrated wavelengths as the FPM-602, plus 1060 |
| Power uncertainty ³ | ±5 % ± 0.1 nW | ±5 % ± 3 nW |
| Resolution (dB) | ±0.01 (10 dBm to -60 dBm) | ±0.01 (26 dBm to -45 dBm) |
| Automatic offset nulling ⁴ | Yes | Yes |
| Display units | dB, dBm, W | dB, dBm, W |
| Tone detection | 270 Hz, 1 kHz and 2 kHz | 270 Hz, 1 kHz and 2 kHz |
| Auto-switching ⁵ | Yes | Yes |
| Warm-up period (min) ⁶ | 0 | 0 |
| Data storage (items) | more than 1000 | more than 1000 |
| Battery life (hours) (typical) | 72 | 72 |
| Warranty and recommended recalibration interval (years) | 3 | 3 |
| VFL⁷ | | |
| Emitter type | Laser | |
| Wavelength (nm) | 650 | |
| Output power (dBm) | 3 | |

General Specifications

| | | |
|-------------------|--|---|
| Size (H x W x D) | 190 mm x 100 mm x 62 mm | (7 1/2 in x 4 in x 2 1/2 in) |
| Weight | 0.48 kg | (1.1 lb) |
| Temperature | operating: -10 °C to 50 °C storage: -40 °C to 70 °C | (14 °F to 122 °F) (-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, lithium ion battery, shoulder strap, hard carrying case, USB cable.

Safety

21 CFR 1040.10 and IEC 60825-1:1993+A1:1997+A2:2001:
CLASS 3R LASER PRODUCT FOR VFL OPTION



Notes

- Guaranteed unless otherwise specified. All specifications valid at 1550 nm and 23 °C ± 1 °C, with an FC connector.
- In CW mode; sensitivity defined as 6 x rms noise level.
- For calibrated wavelengths. Valid up to 20 dBm for FPM-602X.
- For power > -40 dBm for FPM-602, and > -25 dBm for FPM-602X.
- At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1650 nm; for power > -50 dBm for FPM-602 and > -40 dBm (typical) for FPM-602X.
- For a variation of ≤ 0.06 dB at power levels ≥ -40 dBm for FPM-602 and ≥ -25 dBm for FPM-602X.
- Typical values in 62.5/125 μm fiber.

ORDERING INFORMATION

FPM-60X-XX-XX

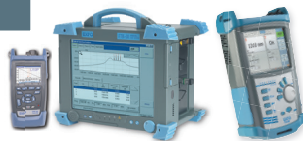
| Model | Connector Adapter | Visual Fault Locator |
|-----------------------------------|--|-----------------------------------|
| FPM-602 = Ge detector | FOA-12 = Biconic | 00 = Without visual fault locator |
| FPM-602X = High-power Ge detector | FOA-14 = D4, D4/PC | VFL = With visual fault locator |
| Example: FPM-602X-FOA-22-VFL | FOA-16 = SMA/905, SMA/906 | (Universal 2.5 mm connector) |
| | FOA-22 = FC (PC/SPC/U/PC/APC), NEC-D3 | |
| | FOA-28 = DIN 47256 (LSA); DIN 47256 (PC/APC) | |
| | FOA-32 = ST (PC/SPC/U/PC) | |
| | FOA-40 = Diamond HMS-0HFS-3 (3.5 mm) | |
| | FOA-54 = SC (PC/SPC/U/PC/APC) | |
| | FOA-76 = FSMA HMS-10/AG, HFS-10/AG | |
| | FOA-78 = Radial EC | |
| | FOA-84 = Diamond HMS-10, HFS-13 | |
| | FOA-96B = E-2000 | |
| | FOA-98 = LC | |
| | FOA-99 = MU | |

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



Optical Fiber

- OTDR
- OLTS
- ORL meter
- Variable Attenuator

DWDM Test Systems

- OSA
- SDH/PDH (64 kb/s to STM-64c)
- PMD analyzer
- Chromatic dispersion analyzer

Transport/Datacom

- SONET/DSn (DS0 to OC-192c)
- 10/100 and Gigabit Ethernet
- Fibre Channel
- 10 Gigabit Ethernet

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| | | | | |
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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. All of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices.

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In case of discrepancy, the Web version takes precedence over any printed literature.