

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
- Error-free, time-saving test features: automatic wavelength recognition, no offset nulling, and compatibility with 300 series, FOT-930 MaxTester and FTB-3930 units
- Visual fault locator (VFL) option for quick and easy troubleshooting
- 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 converter software, the FPM-600 facilitates data management and enables data transfer to a PC via USB connection.

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, 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.

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.



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 |
| Number of calibrated wavelengths (nm) | 40 | 40 |
| Power uncertainty ³ | ± 5 % ± 0.1 nW | ± 5 % ± 3 nW |
| Resolution (dB) | ± 0.01 (10 to -60) | ± 0.01 (26 to -45) |
| 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 |
| Automatic wavelength recognition 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) | 19.0 cm x 10.0 cm x 6.2 cm | (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 | (14 °F to 122 °F) |
| Temperature 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, 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 variation ≤ 0.06 dB at 23 °C ± 1 °C; 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

FPM-602 = Ge detector
FPM-602X = High-power Ge detector

Example: FPM-602X-FOA-22-VFL

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-OHFS-3 (3.5 mm)

FOA-54 = SC (PC/SPC/UPC/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

Visual Fault Locator

00 = Without visual fault locator
VFL = With visual fault locator
(Universal 2.5 mm connector)

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
- Switch

DWDM Test Systems

- OSA
- PMD analyzer
- Chromatic dispersion analyzer
- Multiwavelength meter

Transport/Datacom

- 10/100 and Gigabit Ethernet
- SONET/SDH (DS0 to OC-192c)
- SDH/PDH (64 kb/s to STM-64c)
- SAN

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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. 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.

Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

For the most recent version of this spec sheet, please go to the EXFO website at <http://www.exfo.com/specs>

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