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.

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Product Lifecycle Management System

- 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, no 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.

NEW

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.

NEW

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.

FTTx
TEST SOLUTIONS

Power Meter

SPECIFICATIONS[1]

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
VFL[7]		
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	(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, 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

▼ If VFL option is available

IEC 60825-1:1993+A2:2001
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)

Notes

1. Guaranteed unless otherwise specified. All specifications valid at 1550 nm and 23 °C ± 1 °C, with an FC connector.
2. In CW mode; sensitivity defined as 6 x rms noise level.
3. For calibrated wavelengths. Valid up to 20 dBm for FPM-602X.
4. For power > –40 dBm for FPM-602, and > –25 dBm for FPM-602X.
5. 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.
6. For a variation of ≤ 0.06 dB at power levels ≥ –40 dBm for FPM-602 and ≥ –25 dBm for FPM-602X.
7. Typical values in 62.5/125 μm fiber.
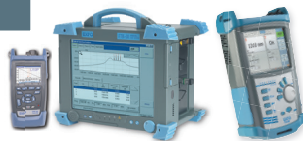
ORDERING INFORMATION

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-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
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
– Variable Attenuator

DWDM Test Systems
– OSA
– PMD analyzer
– Chromatic dispersion analyzer

Transport/Datacom
– SONET/DSn (DS0 to OC-192c)
– SDH/PDH (64 kb/s to STM-64c)
– 10/100 and Gigabit Ethernet
– Fibre Channel
– 10 Gigabit Ethernet

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