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Test & Measurement

- > sales
- > rentals
- > calibration
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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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300

NETWORK TESTING

POWER METER

FPM-300



- Highly accurate unit offering 10 calibrated wavelengths and reference values
- Power autonomy of 300 hours
- Three-year warranty and recommended calibration interval, for dramatically reduced cost of ownership
- Ergonomic, eye-catching handheld package

The FPM-300 Power Meter is part of EXFO's new line of handheld units, which includes the FLS-300 Light Source and the FOT-300 Optical Loss Test Set.

Auto-Wavelength Recognition

The FLS-300 or FOT-300 units can transmit with a wavelength-identification digital encrypted protocol, enabling the FPM-300 Power Meter to automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

Distant Referencing

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

No Offset Nulling

Thanks to its unique design, the FPM-300 Power Meter reduces measurement time in typical measurement situations, as the need for an offset nulling is eliminated.

FTTx Ready

EXFO's FPM-300 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.



SPECIFICATIONS 1

Model ²	FPM-302	FPM-302X
Power meter port	Ge	GeX
Power range ³ (dBm)	10 to -60	26 to -50
Range displayed (dBm)	Down to -65	Down to -50
Number of calibrated wavelengths ⁴	10	10
Power uncertainty ⁵	± 5 % ± 1 nW	± 5 % ± 10 nW
Resolution (dB)	0.01 ⁶	0.01 ⁷
Automatic offset nulling ⁸	Yes	Yes
Warmup time ⁹ (s)	0	0
Display units	dB/dBm/W	dB/dBm/W
Automatic wavelength recognition ¹⁰	Yes	Yes
Screen refresh rate (Hz)	3	3
Tone detection (Hz)	270, 1 k, 2 k	270, 1 k, 2 k
Battery life (hours) (typical)	> 300	> 300
Warranty and recommended calibration interval (years)	3	3

General Specifications

Size (H x W x D)	18.5 cm x 10.0 cm x 5.5 cm	(7 ¹ / ₄ in x 4 in x 2 ¹ / ₈ in)
Weight	0.4 kg	(0.9 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, connector adapter (FOA-XX), AC adapter, three AA batteries, wrist strap, alcohol cleaning pads.

Notes

1. Guaranteed unless otherwise specified.
2. All specifications valid at 1550 nm and 23 °C ± 1 °C, with an FC connector.
3. In CW mode; sensitivity defined as 6 x rms noise level.
4. Wavelengths: 830 nm, 850 nm, 980 nm, 1300 nm, 1310 nm, 1450 nm, 1490 nm, 1550 nm, 1590 nm and 1625 nm.
5. Traceable to NIST; FPM-302X: up to 20 dBm.
6. From 10 dBm to -50 dBm.
7. From 26 dBm to -35 dBm.
8. Power of > -40 dBm for FPM-302, and of > -25 dBm for FPM-302X.
9. For ± 0.05 dB and temperatures of > 18 °C.
10. At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm; power of > -50 dBm for FPM-302, and of > -40 dBm (typical) for FPM-302X.

ORDERING INFORMATION

FPM-30X-XX

Model

FPM-302 = Ge detector
FPM-302X = High-power Ge detector

Example: FPM-302X-FOA-22

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-24 = Radiall VFO/DF (straight/slant)
FOA-28 = DIN 47256 (LSA); DIN 47256 (PC/APC)
FOA-32 = ST (PC/SPC/UPC)
FOA-34 = Mini-BNC
FOA-40 = Diamond HMS-OHFS-3 (3.5 mm)
FOA-42 = Radiall PFO
FOA-44 = Radiall MFO

FOA-48 = HP HFBR-4501-HFBR-4503
FOA-52 = Biconic Bayonet
FOA-54 = SC (PC/SPC/UPC/APC)
FOA-68 = AT&T Rotary Splice
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

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.