FPM-300

POWER METER

FTTx
Test Solutions

FROST & SULLIVAN

2011

BEST
PRACTICES
AWARD

**GLOBAL PORTABLE FIBER OPTIC
TEST EQUIPMENT MARKET
SHARE LEADERSHIP AWARD**

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.

KEY FEATURES

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

EXFO

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.

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 [a]

Model [b]	FPM-302	FPM-302X
Power meter port	Ge	GeX
Power range (dBm) [c]	10 to −60	26 to −50
Range displayed (dBm)	Down to −65	Down to −50
Number of calibrated wavelengths [d]	10	10
Power uncertainty [e]	±5 % ± 0.1 nW	±5 % ± 10 nW
Resolution (dB)	0.01 [f]	0.01 [g]
Automatic offset nulling [h]	Yes	Yes
Warm-up period (min) [i] (s)	0	0
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 [j]	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 recalibration interval (years)	3	3

GENERAL SPECIFICATIONS

Size (H x W x D)	185 mm x 100 mm x 55 mm (7 ¼ in x 4 in x 2 ⅛ in)
Weight	0.4 kg (0.9 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 % noncondensing

STANDARD ACCESSORIES

User guide, certificate of calibration, instrument stickers in six languages, AC adapter, three AA batteries, wrist strap and carrying case.

NOTES

a. Guaranteed unless otherwise specified.

b. All specifications valid at 1550 nm and 23 °C ± 1 °C, with an FC connector.

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

d. Wavelengths: 830 nm, 850 nm, 980 nm, 1300 nm, 1310 nm, 1450 nm, 1490 nm, 1550 nm, 1590 nm and 1625 nm.

e. Traceable to NIST; FPM-302X: up to 20 dBm.

f. From 10 dBm to −50 dBm.

g. From 26 dBm to −35 dBm.

h. Power of > −40 dBm for FPM-302, and of > −25 dBm for FPM-302X.

i. For ± 0.05 dB and temperatures of > 18 °C.

j. 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.

EXFO

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-28 = DIN 47256 (LSA): DIN 47256 (PC/APC)
FOA-32 = ST (PC/SPC/UPC)
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

EXFO