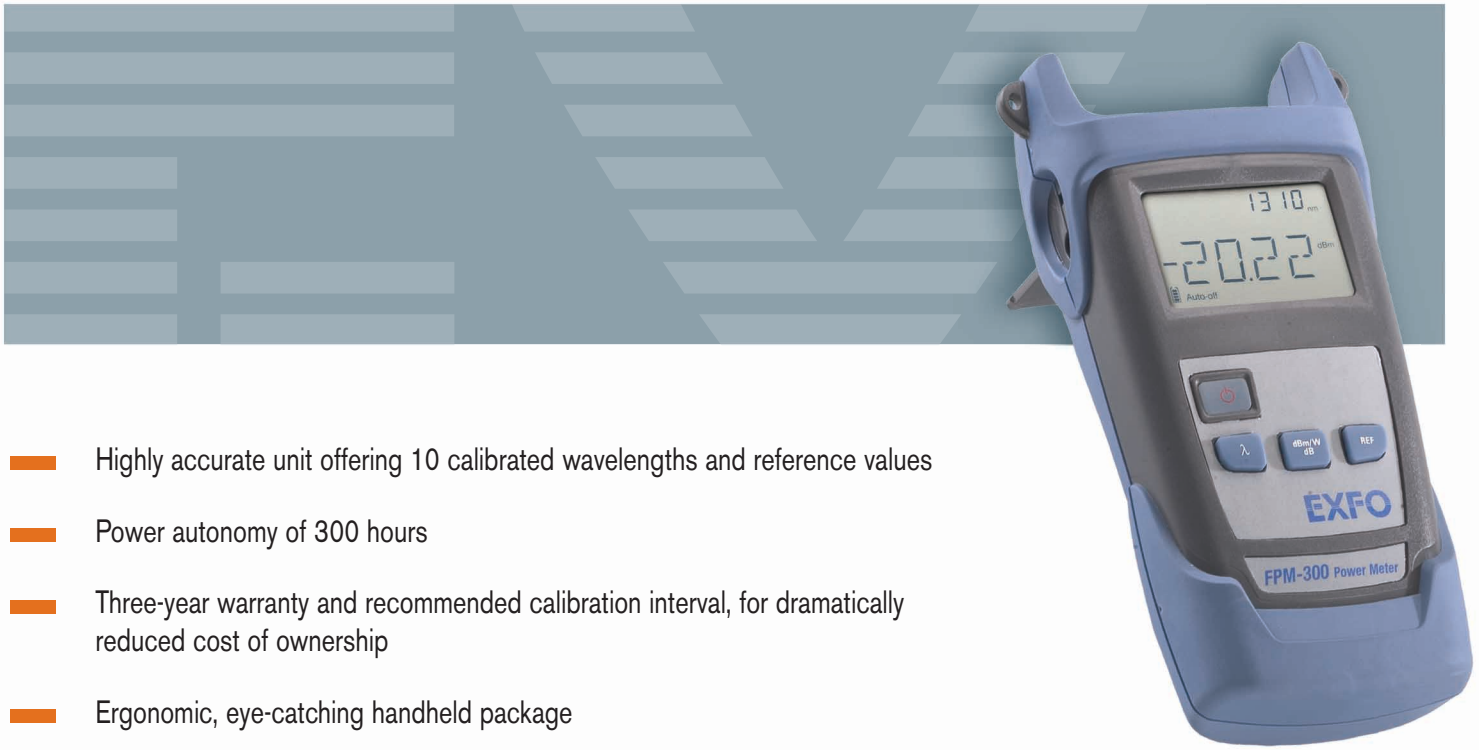
300

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.

FTTx
TEST SOLUTIONS

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	(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, 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

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