# FPM-300 POWER METER



The FPM-300 Power Meter is part of EXFO's new line of handheld units, which includes the FLS-300 Light Source and the F0T-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



### **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®		
Model <sup>b</sup>	FPM-302	FPM-302X
Power meter port	Ge	GeX
Power range (dBm) °	10 to -60	26 to -50
Range displayed (dBm)	Down to -65	Down to -50
Number of calibrated wavelengths <sup>d</sup>	10	10
Power uncertainty <sup>e</sup>	±5 % ± 0.1 nW	±5 % ± 10 nW
Resolution (dB)	0.01 <sup>f</sup>	0.01 <sup>g</sup>
Automatic offset nulling h	Yes	Yes
Warm-up period (min) <sup>i</sup> (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 <sup>j</sup>	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 ½ in)
Weight	0.4 kg (0.9 lb)
Temperature operating storage	−10 °C to 50 °C (14 °F to 122 °F) −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

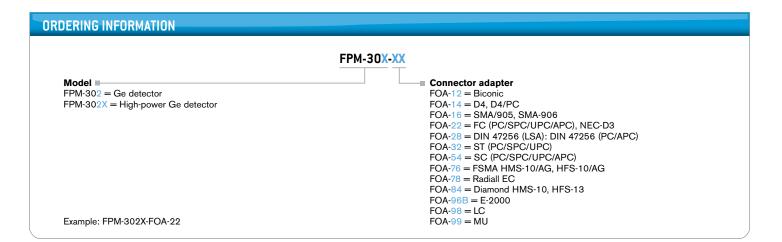
- a. Guaranteed unless otherwise specified.
- b. All specifications valid at 1550 nm and 23 °C  $\pm$  1 °C, with an FC connector.
- c. In CW mode; sensitivity defined as 6 x rms noise level.
- d. Wavelengths: 830 nm, 850 nm, 980 nm, 1300 nm, 1310 nm, 1450 nm, 1490 nm, 1550 nm, 1590 nm and 1625 nm.
- 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  $\pm$  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.



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