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Data Sheet

August 14, 2026

EXFO

Exfo PM-1103 Power Meter

The Exfo PM-1103 is a handheld optical power meter designed for accurate measurement of optical power in fiber optic systems. It features a user-friendly interface, high accuracy, and a wide dynamic range, making it suitable for field testing and laboratory applications. It supports various connector types and offers data logging capabilities for comprehensive analysis.



MODEL Exfo PM-1103	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU PM-1103	LISTING https://aumictechlabs.com/products/pm-1103-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Exfo PM-1103 is a handheld optical power meter engineered for precise measurements across fiber optic systems. Built with an InGaAs detector, it operates across the 800 nm to 1700 nm wavelength range and delivers a 110 dB dynamic range spanning +9 dBm to -100 dBm. This instrument combines laboratory-grade accuracy with field-deployment capability. Technical Specifications Detector: InGaAs Wavelength Range: 800 nm to 1700 nm Power Range: +9 dBm to -100 dBm Dynamic Range: 110 dB Linearity: ± 0.015 dB Absolute Uncertainty: $\pm 5\%$ Wavelength Resolution: 1 nm Power Resolution: 0.001 dB Connector Types: Various (FOA adapters available for specific types) Data Storage: 512 readings (manual mode); 1024 readings (programmed sequence) Programmable User Setups: Up to 10, each supporting up to 20 wavelengths Display: Large format, optimized for distance viewing and low ambient light conditions Key Features $\pm 5\%$ absolute uncertainty ensures reliable optical power characterization across telecommunications

and datacenter environments 0.001 dB power resolution and ± 0.015 dB linearity enable detection of minute signal variations Dual data-logging modes - manual and programmed sequences - streamline repetitive measurement workflows Ten programmable user setups with multi-wavelength configuration reduce setup time between test runs Remote Control & Integration GPIB and RS-232 interfaces enable automation from external test systems RS-232 DTE pinout configuration ensures compatibility with standard laboratory equipment IQ-1100 Windows-compatible software supports configuration, data acquisition, and analysis Remote operation from any compatible PC or test station Typical Applications Field testing of fiber optic installations, optical system validation, power budget verification, and automated laboratory measurement sequences.

PM1103 Characteristics / Specifications

PARAMETER	VALUE
Model Class	PM-1103 InGaAs PM-1100 family
Number Of Detectors	1
Detector Type	InGaAs
Related GeX Model	PM-1102X
Linearity Family	plus or minus 0.015 dB
Power Resolution Family	0.001 dB
Uncertainty Family	plus or minus 5 percent
Size HxWxD	117 mm x 222 mm x 333 mm
Operating Temperature	0 C to 40 C
Storage Temperature	minus 40 C to 70 C
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control	GPIB IEEE-488 and RS-232
Instrument Drivers	LabVIEW and SCPI
Fiber Type	5/125 to 62.5/125 um
Warmup Time	20 minutes then offset nulling
Spec Wavelength Reference	1310 nm unless noted
Form Factor	stand-alone benchtop
Wavelength range	750 to 1700 nm
Wavelength resolution	PM-1100: 1 nm
Humidity	0 percent to 80 percent non-condensing

PM1103 Specifications

PARAMETER	VALUE
Key Features	InGaAs detector PM-1100 family configuration
Plus or minus 0.015 dB linearity	0.001 dB power resolution
Technical Specifications	Model Class: PM-1103 InGaAs PM-1100 family

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 70 C
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Humidity	0 percent to 80 percent non-condensing
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control	GPIB IEEE-488 and RS-232
Instrument Drivers	LabVIEW and SCPI
Fiber Type	5/125 to 62.5/125 um
Warmup Time	20 minutes then offset nulling
Spec Wavelength Reference	1310 nm unless noted
Form Factor	stand-alone benchtop Notes From EXFO PM-1100/PM-1600 datasheet SPPM1100/1600.3AN for the PM-1100 family. Published numeric column is PM-1102X (GeX); PM-1103 is the InGaAs ordering identity in the same family—confirm InGaAs power-range window on the unit calibration certificate if the faceplate is PM-1103.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model Class	PM-1103 InGaAs PM-1100 family
Number Of Detectors	1
Detector Type	InGaAs
Related GeX Model	PM-1102X
PM-1102X Wavelength Range: 750 to 1700 nm PM-1102X Power Range: 20 to minus 75 dBm PM-1102X Detector Size: 2 mm GeX	
Specifications	
PARAMETER	VALUE
Linearity Family	plus or minus 0.015 dB
Power Resolution Family	0.001 dB
Uncertainty Family	plus or minus 5 percent
Wavelength Resolution PM-1100: 1 nm Size HxWxD: 117 mm x 222 mm x 333 mm Weight PM-1100: 2.0 kg	
Specifications	
PARAMETER	VALUE
Operating Temperature	0 C to 40 C
Storage Temperature	minus 40 C to 70 C
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control	GPIB IEEE-488 and RS-232
Instrument Drivers	LabVIEW and SCPI
Fiber Type	5/125 to 62.5/125 um
Warmup Time	20 minutes then offset nulling
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Notes

From EXFO PM-1100/PM-1600 datasheet SPPM1100/1600.3AN for the PM-1100 family. Published numeric column is PM-1102X (GeX); PM-1103 is the InGaAs ordering identity in the same family-confirm InGaAs power-range window on the unit calibration certificate if the faceplate is PM-1103.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.