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Data Sheet

August 2, 2026

EXFO

Exfo PM-1100 750nm Fiber Optic Optical Power Meter

Exfo PM-1100 750nm Fiber Optic Optical Power Meter The PM1100 provides a stand-alone fiber optic optical power meter designed for laboratory and field absolute and relative power measurements, with catalog "750nm" indicating wavelength coverage beginning at 750 nm. Typical germanium extended (GeX) configuration PM-1102X class supports 750 to 1700 nm with high linearity and fine resolution. Absolute and relative optical power measurement on fiber links; insertion loss and attenuation verification; wavelength-specific calibration for multimode and singlemode systems; remote measurement and data logging via GPIB or RS-232; bench and production optical component test. The PM1100 provides a stand-alone fiber optic optical power meter designed for laboratory and field absolute and relative power measurements, with catalog "750nm" indicating wavelength coverage beginning at 750 nm. Typical germanium extended (GeX) configuration PM-1102X class supports 750 to 1700 nm with high linearity and fine resolution. Absolute and relative optical power measurement on fiber links; insertion loss and attenuation verification; wavelength-specific calibration for multimode and singlemode systems; remote measurement and data logging via GPIB or RS-232; bench and production optical component test.



MODEL

Exfo PM-1100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PM-1100

LISTING

<https://aumictechlabs.com/products/pm-1100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO PM-1100 is an optical power meter engineered for precision measurements across fiber optic installations and component characterization. It performs absolute power quantification in dBm or W, insertion loss assessment in dB or W/W, linearity verification, system monitoring, and source stability measurement. The instrument features a Germanium (Ge) detector optimized for the 750 nm to 1700 nm wavelength range, delivering power measurement capability from +25 dBm to -75 dBm with $\pm 5\%$ absolute uncertainty and ± 0.015 dB linearity. Resolution reaches 0.001 dB across all measurement modes.

Technical Specifications

Optical Performance

Wavelength range: 750 nm to 1700 nm

Power measurement range: +25 dBm to -75 dBm

Absolute uncertainty: $\pm 5\%$

Linearity: ± 0.015 dB

Resolution: 0.001 dB

Stabilization time: Typically 640 ms

Acquisition & Sampling

Fast acquisition mode: Up to 50 k samples/s/channel

Selectable continuous rates: 40.0, 20.0, 10.0, 5.0, 1.0, 0.5, 0.1 k samples/s/channel

Data Management

Store up to 20 preselected wavelengths per user setup

Up to 10 user setups with 20 wavelengths each

Manual storage: 512 readings (power level, wavelength, offset)

Programmed sequence storage: 1024 readings

Offset compensation available for known power loss or gain

Connectivity & Control

Remote interfaces: GPIB and RS-232

LabVIEW™ drivers and SCPI command support

Menu-driven interface for local operation

Physical

Large display optimized for varying ambient lighting

Interchangeable fiber-optic adapters: SMA 906, FC, DIN 47256, ST, Diamond types

Key Features

High resolution measurement at 0.001 dB across full dynamic range

$\pm 5\%$ accuracy supports insertion loss and component characterization workflows

Configurable sampling rates from 0.1 k to 50 k samples/s/channel

accommodate transient and continuous monitoring

Extensive memory architecture enables unattended logging of up to 1024 readings per session

Offset and calibration factor storage eliminates manual calculation

Typical Applications

Absolute power verification in optical systems

Insertion loss measurement on passive components and assemblies

Subsystem and link-level monitoring

Source stability assessment and verification

Linearity validation in optical test benches

Compatibility & Integration

Remote operation via GPIB or RS-232 enables integration into automated test racks and production environments.

LabVIEW™ instrument drivers and SCPI command syntax support vendor-agnostic control frameworks.

Interchangeable fiber adapters permit rapid reconfiguration across SMA 906, FC, DIN 47256, ST, and Diamond connector families without tool changeover.

Features & description

From manufacturer datasheet

Features

- Stand-alone fiber optic optical power meter
- Wavelength range from 750 nm (catalog "750nM" designation)
- Typical GeX model PM-1102X: 750 to 1700 nm coverage
- Measurement range approximately +20 to -75 dBm
- Linearity ± 0.015 dB; uncertainty $\pm 5\%$
- Resolution 0.001 dB
- GPIB and RS-232 remote interfaces

PM1100 Characteristics / Specifications

PARAMETER	VALUE
Model	PM-1100 (PM1100)
Manufacturer	Exfo
Instrument Type	Stand-Alone Fiber Optic Optical Power Meter
Typical Detector Configuration	PM-1102X GeX class
Wavelength Range	750 to 1700 nm (catalog starts at 750 nm)
Power Range	Approximately +20 to -75 dBm
Linearity	±0.015 dB
Measurement Uncertainty	±5%
Resolution	0.001 dB
Remote Interfaces	GPIB, RS-232
Alias	PM1100 Standard Operating Conditions Select calibrated wavelength and appropriate detector path before measurement. Allow detector settling after wavelength or range changes. Operate within rated optical power limits to avoid detector saturation or damage.
Typical GeX model PM-1102X	750 to 1700 nm coverage
Attenuation	verification; wavelength-specific calibration for multimode and singlemode systems; remote measurement and data logging via GPIB or RS-232; bench and production optical component test.

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	PM-1100 (PM1100)
Manufacturer	Exfo
Instrument Type	Stand-Alone Fiber Optic Optical Power Meter
Typical Detector Configuration	PM-1102X GeX class
Wavelength Range	750 to 1700 nm (catalog starts at 750 nm)
Power Range	Approximately +20 to -75 dBm
Linearity	±0.015 dB
Measurement Uncertainty	±5%
Resolution	0.001 dB
Remote Interfaces	GPIB, RS-232
Alias	PM1100
Standard Operating Conditions	
Select calibrated wavelength and appropriate detector path before measurement. Allow detector settling after wavelength or range changes. Operate within rated optical power limits to avoid detector saturation or damage.	
Operational Notes	
Catalog PM-1100 "750nM" refers to short-wavelength coverage starting at 750 nm, not asingle-wavelength instrument. Confirm installed detector head model (e.g., PM-1102X GeX) on faceplate for exact range and calibration set. Alias PM1100.	

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.