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Data Sheet

August 14, 2026

EXFO

Exfo PM-1613 Single Channel High-Speed Power Meter

The Exfo PM-1613 is a single-channel, high-speed power meter designed for accurate measurement of optical power in fiber optic systems. It offers high sensitivity and fast response times, making it suitable for testing and characterization of optical components and networks.



MODEL

Exfo PM-1613

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PM-1613

LISTING

<https://aumictechlabs.com/products/pm-1613-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO PM-1613 is a single-channel, high-speed optical power meter engineered for precision measurements in fiber optic systems testing and manufacturing environments. Built around a 1 mm InGaAs detector, it delivers rapid response times and high sensitivity across the 800–1700 nm wavelength band, with measurement resolution to 0.001 dB and absolute uncertainty of $\pm 5\%$ over its core dynamic range. The instrument supports multiple measurement units (dB, dBm, Watt) and operates in both continuous and burst acquisition modes, sampling up to 4096 samples/second for transient capture and analysis. Technical Specifications Detector: Single InGaAs channel, 1 mm active area Wavelength Range: 800–1700 nm Power Range: -85 to 9 dBm Power Resolution: 0.001 dB (9 dBm to -40 dBm) Absolute Uncertainty: $\pm 5\%$ (0 dBm to -55 dBm) Linearity: ± 0.015 dB (0

dBm to -55 dBm) Noise (Peak-to-Peak): 3 pW Sampling Rate: Up to 4096 samples/second (fast/burst mode); up to 256 samples/second (continuous) Stabilization Time: 12 ms (automatic gain range mode, up to 95 dB fluctuations); <1 ms (manual range, locked gain) Programmable Acquisitions: Up to 1024 samples Operating Temperature: 0–40 °C Key Features Analog output and external trigger support for system integration GPIB interface for remote instrument control and data logging Automatic or manual gain range selection with millisecond-level response Front-panel controls for nulling, unit selection, wavelength entry, and gain scaling Wavelength-dependent calibration factors applicable across the measurement band Typical Applications Fiber optic component characterization and loss measurement High-speed transient power monitoring and burst analysis Manufacturing test and quality assurance workflows Laboratory power budget validation and system commissioning Compatibility & Integration The PM-1613 accepts interchangeable fiber-optic adapters (FOA) for various connector types, sold separately. Standard options include SMA 906, FC, DIN 47256, and ST configurations, all with low-reflection specifications. The instrument works with indoor use only.

PM1613 Characteristics / Specifications

PARAMETER	VALUE
Number Of Detectors	1
Detector Type	InGaAs
Detector Size	1 mm
Wavelength Range	800 to 1700 nm
Power Range	9 to minus 80 dBm
Uncertainty	plus or minus 5 percent (0 dBm to minus 55 dBm)
Linearity	plus or minus 0.015 dB (0 dBm to minus 55 dBm)
Noise Peak To Peak Typical	3 pW
Power Resolution	0.001 dB (9 dBm to minus 40 dBm)
Wavelength Resolution	0.01 nm
Stabilization Automatic Full Range	12 ms
Stabilization Automatic Reduced	3 ms
Stabilization Fixed Range	1 ms
Sampling Fast Acquisition	up to 4096 samples/s
Sampling Continuous Mode	up to 256 samples/s
Fiber Type	5/125 to 62.5/125 um
Analog Output Voltage Typical	0 to 2.15 V
Analog Output Impedance Typical	640 ohm
External Trigger Input	0 to 5 V TTL
Size HxWxD	117 mm x 222 mm x 333 mm
Weight	2.8 kg
Operating Temperature	0 C to 40 C
Storage Temperature	minus 35 C to 70 C
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control	GPIB IEEE-488 and RS-232

PARAMETER

VALUE

Program Acquisition Depth

up to 1024 samples

Humidity

0 percent to 80 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 35 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
Program Acquisition Depth	up to 1024 samples Notes From EXFO PM-1100/1600 datasheet SPPM1100/1600.3AN model column PM-1613/1623. Specs at 1310 nm with FC non-angled connector after 20-minute warm-up and offset nulling unless noted.

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	
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Remote Control	GPIO IEEE-488 and RS-232
Program Acquisition Depth	up to 1024 samples

Notes

From EXFO PM-1100/1600 datasheet SPPM1100/1600.3AN model column PM-1613/1623. Specs at 1310 nm with FC non-angled connector after 20-minute warm-up and offset nulling unless noted.

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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NIST-traceable calibration · SAM registered ·
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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.