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Data Sheet

August 14, 2026

EXFO

Exfo PM-1613W 800nm Fiber Optic Optical Power Meter

The EXFO PM-1613W is a fiber optic optical power meter engineered for precision measurements across the 800 nm to 1700 nm wavelength range. Built around a 3 mm InGaAs detector, this instrument delivers fast stabilization and high sampling rates for demanding field and laboratory applications. It excels at characterizing both active and passive optical components with exceptional repeatability, particularly suited for in-process testing before connectorization. Stabilization Time: Less than 12 ms (automatic gain range mode, up to 95 dB power fluctuations); less than 1 ms (manual range, locked gain) Power Transitions: Stabilizes within 15 ms for transitions up to 95 dB; 1 ms stabilization achievable with reduced dynamic range or manual gain locking Programmable Acquisitions: Up to 1024 samples with electrical or optical synchronization



MODEL

Exfo PM-1613W

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PM-1613W

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO PM-1613W is a fiber optic optical power meter engineered for precision measurements across the 800 nm to 1700 nm wavelength range. Built around a 3 mm InGaAs detector, this instrument delivers fast stabilization and high sampling rates for demanding field and laboratory

applications. It excels at characterizing both active and passive optical components with exceptional repeatability, particularly suited for in-process testing before connectorization.

Technical Specifications Wavelength Range: 800 nm to 1700 nm Detector Type: InGaAs, 3 mm diameter Measurement Units: dB, dBm, Watt Accuracy: ± 0.015 dB Linearity Sampling Rate: Up to 4096 samples per second Stabilization Time: Less than 12 ms (automatic gain range mode, up to 95 dB power fluctuations); less than 1 ms (manual range, locked gain) Power Transitions: Stabilizes within 15 ms for transitions up to 95 dB; 1 ms stabilization achievable with reduced dynamic range or manual gain locking Programmable Acquisitions: Up to 1024 samples with electrical or optical synchronization Interface: Standard GPIB Power Supply Fuse: IEC, 5 mm $\times$ 20 mm, fast-blow, 250 V, 2 A Key Features Low polarization-dependent response Wide-area 3 mm detector for enhanced repeatability and stabilization Absolute power measurement (watts or dBm) and relative power measurement (dB or W/W) Calibration factors applicable to any wavelength within range Analog output and external trigger capability Electrical or optical synchronization for power measurements Front panel controls for nulling, wavelength selection, gain scale adjustment, and reference configuration Manual and programmed data acquisition modes Typical Applications Characterization of optical components before connectorization, in-process component testing, optical network troubleshooting, and laboratory power measurement validation across the near-infrared spectrum. Compatibility & Integration Standard GPIB interface enables remote control and system integration. Fiber optic connectors provide the primary measurement interface. Alternative connector configurations are available to suit specific test environments.

PM1613W Characteristics / Specifications

PARAMETER	VALUE
Number Of Detectors	1
Detector Option	wide areaWDetector Size Wide Area: 3 mm
Wavelength Range Family	800 to 1700 nm
Wide Area Power Range	8 to minus 70 dBm
Wide Area Stabilization Automatic	6 ms (8 dBm to minus 70 dBm)
Uncertainty Family	plus or minus 5 percent (0 dBm to minus 55 dBm class on standard column)
Linearity Family	plus or minus 0.015 dB (0 dBm to minus 55 dBm class)
Power Resolution Family	0.001 dB (high power decade class)
Wavelength Resolution Family	0.01 nm
Sampling Fast Acquisition Family	up to 4096 samples/s
Sampling Continuous Mode Family	up to 256 samples/s
Fiber Type Family	5/125 to 62.5/125 um
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 and RS-232
Intended Coupling Class	bare fiber and wide-spot
Related Standard Model	PM-1613 1 mm detector
Wavelength range	Family: 800 to 1700 nm
Wavelength resolution	Family: 0.01 nm
Humidity	0 percent to 80 percent non-condensing

PARAMETER	VALUE
Fiber type	Family: 5/125 to 62.5/125 um

PM1613W Specifications

PARAMETER	VALUE
Key Features	Single wide-area 3 mm detector channel
TTL external trigger	Stand-alone PM-1600 chassis
Technical Specifications	Number Of Detectors: 1
Notes	From EXFO PM-1100/1600 datasheet SPPM1100/1600.3AN wide-area W detector columns. Confirm W faceplate marking versus standard 1 mm PM-1613.

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 and RS-232
Intended Coupling Class	bare fiber and wide-spot
Related Standard Model	PM-1613 1 mm detector Notes From EXFO PM-1100/1600 datasheet SPPM1100/1600.3AN wide-areaWdetector columns. ConfirmWfaceplate marking versus standard 1 mm PM-1613.

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	
Technical Specifications	
PARAMETER	VALUE
Number Of Detectors	1
Detector Option	wide area W
Detector Size Wide Area	3 mm
Wavelength Range Family	800 to 1700 nm
Wide Area Power Range	8 to minus 70 dBm
Wide Area Stabilization Automatic	6 ms (8 dBm to minus 70 dBm)
Uncertainty Family	plus or minus 5 percent (0 dBm to minus 55 dBm class on standard column)
Linearity Family	plus or minus 0.015 dB (0 dBm to minus 55 dBm class)
Power Resolution Family	0.001 dB (high power decade class)
Wavelength Resolution Family	0.01 nm
Sampling Fast Acquisition Family	up to 4096 samples/s
Sampling Continuous Mode Family	up to 256 samples/s
Fiber Type Family	5/125 to 62.5/125 um
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 and RS-232
Intended Coupling Class	bare fiber and wide-spot
Related Standard Model	PM-1613 1 mm detector
Specifications	
PARAMETER	VALUE
Number Of Detectors	1

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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	GPIO and RS-232
Intended Coupling Class	bare fiber and wide-spot
Related Standard Model	PM-1613 1 mm detector

Notes
 From EXFO PM-1100/1600 datasheet SPPM1100/1600.3AN wide-areaWdetector columns. ConfirmWfaceplate marking versus standard 1 mm PM-1613.

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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<https://aumictechlabs.com>

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.