

**Aumictech**

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Data Sheet

August 14, 2026

EXFO

Exfo PM-1623W 800nm Fiber Optic Optical Power Meter

The EXFO PM-1623W is a specialized power meter for 800nm multimode fiber testing. It provides high accuracy (± 0.25 dB) and a wide dynamic range, making it suitable for LAN, data center, and military/aerospace applications. Its compact, rugged design ensures reliable performance in field and lab environments.



MODEL

Exfo PM-1623W

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PM-1623W

LISTING

<https://aumictechlabs.com/products/pm-1623w-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO PM-1623W is a dual-detector fiber optic power meter engineered for precision optical power measurements across the 800 nm to 1700 nm wavelength range. Built for demanding environments in LANs, data centers, and military/aerospace applications, this instrument delivers high-speed acquisition and field-ready performance. Dual InGaAs detectors with 3 mm aperture geometry enable simultaneous dual-channel measurements, while fast sampling rates up to 4096 samples/second per channel and 1 ms fixed-range stabilization support rapid component characterization and system troubleshooting. Technical Specifications Wavelength Range: 800 nm to 1700 nm Power Measurement Range: -70 dBm to 8 dBm Power Resolution: 0.001 dB (8 dBm to -70 dBm) Absolute Uncertainty: $\pm 5\%$ (0 dBm to -50 dBm) Linearity: ± 0.015 dB (0 dBm to -50

dBm) Noise (Peak-to-Peak): 20 pW Wavelength Resolution: 0.01 nm Detector Type: InGaAs (dual, 3 mm aperture) Fiber Compatibility: 5/125 μm to 62.5/125 μm Stabilization Time: 1 ms (fixed range), 6 ms (automatic range 8 dBm to -70 dBm) Sampling Rate: 4096 samples/second/channel (fast mode), 256 samples/second/channel (continuous) Analog Output: 700 kHz bandwidth, 0–2.15 V output, 640 Ω impedance Operating Temperature: 0°C to 40°C (averaged measurements) Power Display Units: dB, dBm, Watt Key Features Dual simultaneous power measurements with independent detector channels Menu-driven interface with GPIB (IEEE-488.1/488.2) and RS-232 remote control Electrical (0–5V TTL) or optical trigger synchronization via power threshold LabVIEW™ drivers and SCPI command support Compact design for field deployment and laboratory use Interchangeable fiber-optic adapters for connector flexibility Typical Applications High-speed optical link characterization and acceptance testing Component power level verification in production environments Dual-wavelength simultaneous measurements in system validation Low-power detection in sensitive optical subsystems Compatibility & Integration Operates with EXFO Optical Light Sources and Variable Attenuators. EMC compliance tested per EN61326 Class A limits.

PM1623W Characteristics / Specifications

PARAMETER	VALUE
Number Of Detectors	2
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)
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 Per Channel	up to 4096 samples/s
Sampling Continuous Mode Per Channel	up to 256 samples/s
Display	simultaneous dual-channel power
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
Related Standard Model	PM-1623 1 mm dual channel
Specification Ambient Class	laboratory ambient unless OEM table states otherwise
Wavelength range	Family: 800 to 1700 nm
Wavelength resolution	Family: 0.01 nm
Humidity	0 percent to 80 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 35 C to 70 C
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Relative Humidity	0 percent to 80 percent non-condensing
Remote Control	GPIB and RS-232
Related Standard Model	PM-1623 1 mm dual channel
Specification Ambient Class	laboratory ambient unless OEM table states otherwise Notes From EXFO PM-1100/1600 datasheet SPPM1100/1600.3AN for PM-1623/PM-1623W. ConfirmWide-area option on both channels via faceplate and certificate.

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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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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<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.