

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ILX LIGHTWAVE

ILX Lightwave MPS-8033 – Precision Fiber Optic Source

The ILX Lightwave MPS-8033 is a precision fiber optic source designed for demanding applications. It offers stable and accurate optical power, essential for testing and characterization of fiber optic components and systems.



MODEL

**ILX Lightwave
MPS-8033**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MPS-8033

LISTING

<https://aumictechlabs.com/products/mps-8033-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ILX Lightwave MPS-8033 is a microprocessor-controlled precision fiber optic source engineered for component testing, power meter calibration, and laboratory characterization. It delivers stable, accurate optical power across multiple wavelength options with exceptional short-term and long-term power stability. The instrument supports both continuous wave and internally modulated operation, with remote programming via GPIB for seamless integration into automated test systems.

Technical Specifications

Optical Output Wavelength options: WDM C-Band (1527.98–1564.26 nm), WDM L-Band (1564.27–1610.06 nm), 850 nm, 980 nm, 1310 nm, 1480 nm, 1550 nm, and custom wavelengths upon request

Wavelength accuracy: ±20 nm (options /03–/06); ±0.10 nm (WDM options)

Maximum output power: 20 mW (0 dBm, 10 dBm, or 13 dBm) for WDM and DFB lasers; 1 mW for 850/980/1480 nm FP lasers; +13 dBm (20 mW) for ASE models

Power

adjustment: 10 dB range Power stability: ± 0.005 dB (15 min); ± 0.030 dB (24 hours); ± 0.03 dB (12 hours, ASE models) Thermal stability: 0.2 dB Output connector: FC/APC single-mode fiber Operating Modes & Modulation Continuous Wave (CW) and internal digital modulation Internal modulation frequencies: 270 Hz, 1 kHz, 2 kHz External modulation via GPIB: 160 Hz to 15 kHz Modulation duty cycle: 50% $\pm 2\%$ Edge jitter: 0.01% Display & Control Power display: milliwatts (mW), decibel-milliwatts (dBm), or relative dB Laser diode control: precision temperature and current electronics Warm-up time: 2 hours recommended

Key Features GPIB remote interface for full front-panel function access and instrument-specific command support Increased display resolution through remote programming TTL trigger output (ASE models) with 5 ns jitter and BNC connector Compact form factor: 88 × 212 × 269 mm; <4.7 kg

Typical Applications Optical component characterization and testing Power meter calibration Automated test system integration Laboratory fiber optic measurements

Compatibility & Integration GPIB interface enables direct host computer control and integration into production and laboratory test environments. All operating modes and settings accessible remotely. Power supply: 90–125 VAC, 50–60 Hz.

Features & description

From manufacturer datasheet

Technical Specifications

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Specifications

Parameter Value Power Range (dBm) 0 dBm, 10 dBm, 13 dBm (DFB/WDM options) +13 dBm maximum (ASE models) | Voltage / Current Range 50–60 Hz, 90–125 VAC | Wavelength Range: 1310 nm, 1480 nm, 1527.98–1564.26 nm (WDM C-Band), 1550 nm, 1564.27–1610.06 nm (WDM L-Band), 850 nm, 980 nm

ILX Lightwave MPS-8033 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the ILX Lightwave MPS-8033. Calibration covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Common ILX Lightwave MPS-8033 faults: laser diode end-of-life (output below spec), fiber output connector damage, output instability. Common repairs include laser diode replacement when output falls below spec, fiber output connector repair, and thermal management service. Request Calibration → Request Repair Quote →

ILX Lightwave MPS-8033 price

This ILX Lightwave MPS-8033 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

ILX Lightwave MPS-8033 calibration cost

NIST-traceable calibration for the ILX Lightwave MPS-8033 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Calibration for this instrument covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

Optical component characterization and testing Power meter calibration Automated test system integration Laboratory fiber optic measurements Compatibility & Integration GPIB interface enables direct host computer control and integration into production and laboratory test environments. All operating modes and settings accessible remotely. Power supply: 90–125 VAC, 50–60 Hz.

Unit notes

The ILX Lightwave MPS-8033 is a microprocessor-controlled precision fiber optic source engineered for component testing, power meter calibration, and laboratory characterization. It delivers stable, accurate optical power across multiple wavelength options with exceptional short-term and long-term power stability. The instrument supports both continuous wave and internally modulated operation, with remote programming via GPIB for seamless integration into automated test systems. Technical Specifications Optical Output Wavelength options: WDM C-Band (1527.98–1564.26 nm), WDM L-Band (1564.27–1610.06 nm), 850 nm, 980 nm, 1310 nm, 1480 nm, 1550 nm, and custom wavelengths upon request Wavelength accuracy: ± 20 nm (options /03–/06); ± 0.10 nm (WDM options) Maximum output power: 20 mW (0 dBm, 10 dBm, or 13 dBm) for WDM and DFB lasers; 1 mW for 850/980/1480 nm FP lasers; +13 dBm (20 mW) for ASE models Power adjustment: 10 dB range Power stability: ± 0.005 dB (15 min); ± 0.030 dB (24 hours); ± 0.03 dB (12 hours, ASE models) Thermal stability: 0.2 dB Output connector: FC/APC single-mode fiber Operating Modes & Modulation Continuous Wave (CW) and internal digital modulation Internal modulation frequencies: 270 Hz, 1 kHz, 2 kHz External modulation via GPIB: 160 Hz to 15 kHz Modulation duty cycle: 50% $\pm 2\%$ Edge jitter: 0.01% Display & Control Power display: milliwatts (mW), decibel-milliwatts (dBm), or relative dB Laser diode control: precision temperature and current electronics Warm-up time: 2

MPS-8033 Specifications

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+13 dBm maximum (ASE models) Voltage / Current Range	50–60 Hz, 90–125 VAC Wavelength Range: 1310 nm, 1480 nm, 1527.98–1564.26 nm (WDM C-Band), 1550 nm, 1564.27–1610.06 nm (WDM L-Band), 850 nm, 980 nm

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.

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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

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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.