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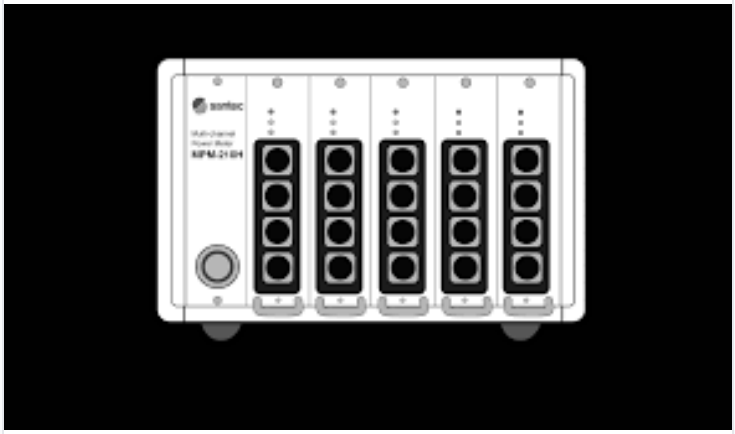
Data Sheet
August 13, 2026

SANTEC

Santec MPM-210 Multichannel Optical Power Meter

The Santec MPM-210 is a Multichannel Optical Power Meter designed for accurate and simultaneous power measurements across multiple channels. It features a user-friendly interface and is ideal for testing and characterizing optical components and systems in research, development, and manufacturing environments.



MODEL Santec MPM-210	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU MPM-210	LISTING https://aumictechlabs.com/products/mpm-210-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Santec MPM-210 is a modular multichannel optical power meter engineered for simultaneous high-accuracy measurements across multiple optical channels in research, development, and manufacturing environments. The mainframe accepts interchangeable modules to measure up to 20 ports, delivering measurement speeds up to 15 times faster than the predecessor MPM-200 model. It combines exceptional linearity, low polarization-dependent sensitivity, and fast acquisition rates up to 100 kHz with high resolution, making it ideal for precise characterization of complex optical devices and component testing.Technical Specifications Wavelength Range: 1250 nm to 1650 nm (MPM-211/212 modules); 1250 nm to 1680 nm (MPM-211/212/215 modules) Power Meter Dynamic Range: −80 dBm to +10 dBm (MPM-211/212); −70 dBm to +5 dBm (MPM-215)

Current Meter Dynamic Range: −70 dBm to +10 dBmA (MPM-213) Maximum Channels: 20 ports (via multiple MPM-211 modules) Measurement Speed: Up to 100 kHz with high resolution; 15× faster data transfer versus MPM-200 Logging Capacity: 1 million sampling points per port with dual memory buffers Dynamic Range (Logging): Typically 50 dB per scan (MPM-211/212/213); 70 dB per scan (MPM-215) Power Repeatability: <±0.02 dB (typical) PDL Repeatability: ±0.01 dB (typical)Key Features Four interchangeable module types optimize measurement configurations for power, current, and high dynamic range applications MPM-212 includes 2-channel analog output (0 to 2 V) for direct oscilloscope connection and real-time power fluctuation visualization MPM-213 current meter module interfaces with Swept Test Systems for transceiver photodiode and optical channel monitor characterization Remote operation via GPIB, TCP/IP, or RS-232C enables fully automated measurement workflows Command compatibility with MPM-200 simplifies system upgrades for existing deploymentsTypical Applications Optical component and subsystem characterization Multichannel power and current monitoring in development and production testing Real-time optical signal tracking and logging Photodiode and transceiver performance validationCompatibility & Integration The MPM-210 mainframe connects via GPIB, TCP/IP, and RS-232C for integration into automated test systems. No front panel display is provided; all operation is remote-controlled.

Features & description

From manufacturer datasheet

Features

• Up to 20 ports (5 × 4-ch MPM-211) • -80 to +10 dBm (MPM-211/212); 50 dB typical per scan • 100 kHz sampling; 1e6 log points x 2 buffers per port • GPIB, Ethernet/TCP/IP, RS-232C, USB • MPM-212 analog 0 to 2 V; MPM-215 ~70 dB per scan • Command compatible MPM-210 to MPM-210H

MPM210 Characteristics / Specifications

PARAMETER	VALUE
Model	MPM-210
Manufacturer	Santec
Instrument Type	Multichannel Optical Power Meter Mainframe
Series	MPM-210 / MPM-210H
Alias	MPM-210; MPM-210H (command compatible successor)
Wavelength Range	1250 to 1680 nm
Specification Wavelength Range Modules	1250 to 1630 nm
Sensor Element	InGaAs
MPM211 212 Power Range	-80 to +10 dBm
MPM215 Power Range	-70 to +5 dBm
MPM213 Current Range	-70 to +10 dBmA (100 pA to 10 mA)
Maximum Ports	20 (4 ports per MPM-211; up to 5 modules)
Logging Points	1000000 per port times 2 buffers
Measurement Speed	100 kHz
Fixed Gain Dynamic Range 211 2	45 dB typical
Fixed Gain Dynamic Range 2	70 dB typical
Logging Dynamic Range 211 212 2	typically 50 dB per scan
Logging Dynamic Range 2	typically 70 dB per scan
Maximum Safe Power	+16 dBm
Power Resolution	0.001 dB
Linearity 211 2	+/-0.03 dB at -55 to 9 dBm (averaging greater than 100 ms auto range)
PDR Typical 1525 to 1585 nm	less than 0.025 dB
PDR Typical 1270 to 1630 nm	less than 0.03 dB
Averaging Time	10 us to 10 s
Analog Output MPM2	0 to 2 V, dynamic range greater than 30 dB typ

PARAMETER	VALUE
Connector Optical	FC
MPM213 Connector	BNC
Mainframe Interfaces	GPIB, Ethernet, RS-232C, USB
Trigger	TTL 3.3 V in and out BNC
Power Monitor Inputs	0 to 3 BNC
Supply Voltage	AC 100 to 240 V, 50/60 Hz
Maximum Power Consumption	50 W
Operating Temperature Mainframe	10 to 40 C
Operating Humidity	less than 80 percent noncondensing
Mainframe Weight	6 kg
Mainframe Dimensions	210 × 350 × 133 mm (WxDxH)
Module Dimensions	30.3 × 183.5 × 114.8 mm (connectors not included)
MPM211 Ports	4 power
MPM212 Ports	2 power plus analog
MPM215 Ports	4 high dynamic range (not mixed with other modules on same frame)
Total Uncertainty Family	+/-5 dB at -60 to 9 dBm class (see module table notes at 23+/-5 C) Notes Specs from Santec MPM-210H datasheet, which states command compatibility with MPM-210. Confirm installed modules (211/212/213/215) and that MPM-215 is not mixed with other types.
Operating temperature	Mainframe: 10 to 40 C
Humidity	less than 80 percent noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Mainframe: 10 to 40 C
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Mainframe Weight	6 kg
Mainframe Dimensions	210 × 350 × 133 mm (WxDxH)
Module Dimensions	30.3 × 183.5 × 114.8 mm (connectors not included)
MPM211 Ports	4 power
MPM212 Ports	2 power plus analog
MPM215 Ports	4 high dynamic range (not mixed with other modules on same frame)
Total Uncertainty Family	+/-5 dB at -60 to 9 dBm class (see module table notes at 23+/-5 C) Notes Specs from Santec MPM-210H datasheet, which states command compatibility with MPM-210. Confirm installed modules (211/212/213/215) and that MPM-215 is not mixed with other types.

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	MPM-210
Manufacturer	Santec
Instrument Type	Multichannel Optical Power Meter Mainframe
Series	MPM-210 / MPM-210H
Alias	MPM-210; MPM-210H (command compatible successor)
Wavelength Range	1250 to 1680 nm
Specification Wavelength Range Modules	1250 to 1630 nm
Sensor Element	InGaAs
MPM211 212 Power Range	-80 to +10 dBm
MPM215 Power Range	-70 to +5 dBm
MPM213 Current Range	-70 to +10 dBmA (100 pA to 10 mA)
Maximum Ports	20 (4 ports per MPM-211; up to 5 modules)
Logging Points	1000000 per port times 2 buffers
Measurement Speed	100 kHz
Fixed Gain Dynamic Range 211 212	45 dB typical
Fixed Gain Dynamic Range 215	70 dB typical
Logging Dynamic Range 211 212 213	typically 50 dB per scan
Logging Dynamic Range 215	typically 70 dB per scan
Maximum Safe Power	+16 dBm
Power Resolution	0.001 dB
Linearity 211 212	+/-0.03 dB at -55 to 9 dBm (averaging greater than 100 ms auto range)
PDR Typical 1525 to 1585 nm	less than 0.025 dB
PDR Typical 1270 to 1630 nm	less than 0.03 dB
Averaging Time	10 us to 10 s
Analog Output MPM212	0 to 2 V, dynamic range greater than 30 dB typ

PARAMETER	VALUE
Connector Optical	FC
MPM213 Connector	BNC
Mainframe Interfaces	GPIB, Ethernet, RS-232C, USB
Trigger	TTL 3.3 V in and out BNC
Power Monitor Inputs	0 to 3 BNC
Supply Voltage	AC 100 to 240 V, 50/60 Hz
Maximum Power Consumption	50 W
Operating Temperature Mainframe	10 to 40 C
Operating Humidity	less than 80 percent noncondensing
Mainframe Weight	6 kg
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MPM211 Ports	4 power
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Total Uncertainty Family	+/-5 dB at -60 to 9 dBm class (see module table notes at 23+/-5 C)

Notes
Specs from Santec MPM-210H datasheet, which states command compatibility with MPM-210. Confirm installed modules (211/212/213/215) and that MPM-215 is not mixed with other types.

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

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