



# Multichannel Optical Power Monitor

## MPA-200

### Product Overview

The MPA-200 is a rack-mountable multi-channel Optical Power Monitor ideal for monitoring data centers, telecom equipment, and optical interconnects. Its slim 1U x 19-inch design efficiently monitors the optical power of up to 64 channels while maintaining a compact footprint. It can simultaneously detect and monitor multiple optical signals via LC/SC/MPO multi-fiber connectors, making it ideal for testing 40 GbE / 100 GbE optical transmission devices and transceivers used in data centers. With external dimensions of (W) 482.6 x (D) 506 x (H) 43.65 mm, it offers a compact design that is less than one-tenth the size of typical optical power meters.



### Features

- Simultaneous Optical Power Monitor for up to 64 channels
- Wavelength range: 1260-1610 nm
- Optical power range: -85 dBm to +0 dBm
- USB interface and voltage output for easy data acquisition
- High-speed optical connection using MPO adapter, multiple signal support
- High cost performance
- Slim 1U size achieves space saving and high integration
- Flexible customization
- Multi-channel: Expandable up to 128 channels <sup>\*1</sup>
- Connector selection: LC/SC/MPO selectable

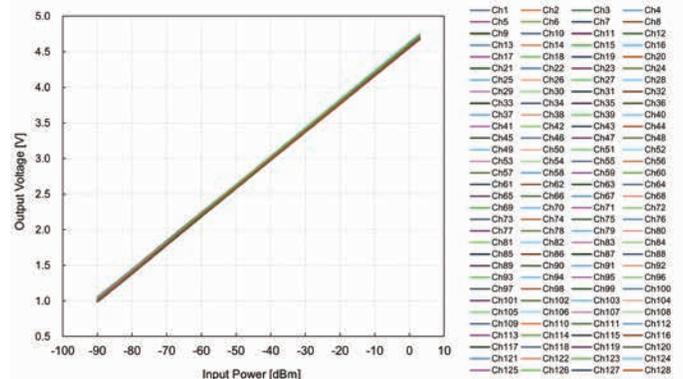


### Applications

- Optical Power Monitor for optical communication equipment in data centers
- Optical interconnect signal power monitor
- Optical power testing for telecommunications equipment and CATV networks
- Monitoring high-speed optical transmission devices in data centers

### Measurement Data

Example of input power and output voltage for 128 channels. <sup>\*1</sup>



# Specifications

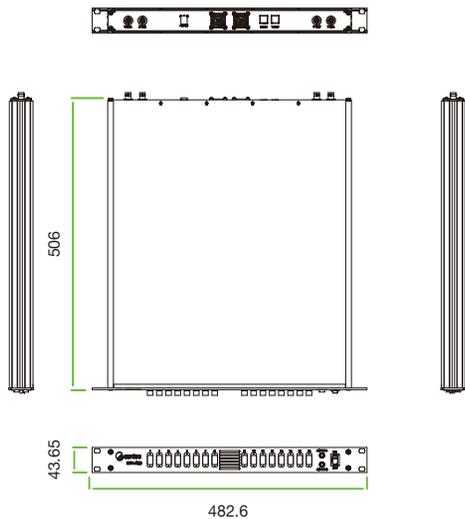
Parameter	Unit	Specification	Notes
Optical input ports	channels	-	Options: 8,16,32,64 *1
Operating wavelength range	nm	1260 to 1610	PD has a spectral responsivity from 1260 nm to 1650 nm.
Optical input power	dBm	-85 to 0	Per channel * Linearity in the range of 0 to 3 dBm is guaranteed by design.
Optical noise limit	dBm	Max. -90	Typ. -90 dBm or less. @ room temperature.
ADC bit	bit	Typ. 16 (14)	MC USB-2637
Data sampling rate	Samples/s	Max. 15,625	Per channel
PD response bandwidth	kHz	Max. 30+/-3 (Typical)	-
Linearity, Δ	dB	Max. +/- 0.6	Typ. +/-0.3
Optical fiber	-	SMF	TU-T G.652
Digital Input & Output	-	USB *2	2 Ports
A/D converter components	-	MC USB-2637	Measurement Computing Corporation
Electrical input ports	-	BNC connector x 4 ports	Rear panel. •Trigger input x2 •Pace channel scanning operations clock(0.0149 Hz to 1 MHz.) x2
Fan motor monitoring	-	MC USB-2637 Digital I/O	Port A bit 0
Optical connector	-	LC/SC/MPO	-
Dimensions	mm	(W)482.6 x (D)506 x (H)43.65	Case color: Silver
Power consumption	W	Max. 25	DC12V *3
Operating temperature	°C	+15 to +35	RH: 85%max, No condensation
Warranty	Year	1	-

\*1 Custom 128 channels are also available.

\*2 Attached 2m USB cable as accessory

\*3 Attached AC100-240V to DC12V Adapter as accessory

## Dimensions Unit [mm]



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