

# OP710 HP

## Multichannel Optical High Power Meter

### Overview

#### Multichannel Optical High Power Meter

The **OP710 HP** offers an economical approach for optical power measurement applications where multiple channels are needed. Unlike other systems this instrument is built up with individual power meters allowing for unparalleled simultaneous data acquisition over all channels.

The **OP710 HP** is available starting at 8 up to 24 channels and can be configured for a variety of detector and connector interfaces. With the rack mount option multiple instruments can be combined and configured for even higher channel count.



Model OP710-24-IN-FC Multichannel Optical High Power Meter with 24 InGaAs detector, all fixed FC/PC Interface

### Features

#### High precision fiber optic power measurement

- Up to 24 channels of precision optical power measurement,
- +27dBm...-55dBm measurement range, 840nm ... 1700nm wavelength range.
- Great measurement resolution of 0.001 dB
- Tight linearity specifications: +/- 0.05dB

#### High speed parallel data acquisition

- The data acquisition rate is better than 10 samples/second, a 20 sample/second option is available

#### Integrated ambient temperature tracking

- The OP710 HP measures the ambient temperature between -10 °C and +55 °C with a resolution of 0.1 °C

#### USB powered, plug and play data acquisition

- The OP710 supports data rates up to 0.2MB/s with the appropriate drivers

CC = number of channels		OP710HP-CC
Detail Specifications	Individual Channels (other counts available)	8 to 24
	Measurement Range	+27dBm ... -55dBm
	Wavelength Range	830nm ... 1700nm
	Selectable Wavelength	Standard: 850/980/1300/1310/1480/1550/1625nm
	Measurement Resolution (Display)	0.01dBm (absolute) 0.001dB(relative)
	Measurement Linearity, Relative Accuracy	0.05dB <sup>2)</sup> 0.1dB <sup>3)</sup>
	Data Interface	USB 1.1/2.0 >10 samples/second acquisition rate
	Operating Temperature Range	0 °C to 50 °C (32 °F to 122 °F)
	Mechanical Dimension	19" Rack Standard (16.8 x 3.8 x 10")
	Optical Interface	5/8" adapter (FC/PC included)
Power Supply	Universal AC input: 90VAC to 264VAC, 43Hz ... 63Hz	

Specifications are subject to change, please confirm specific performance characteristics of the product at the time of ordering.  
All specifications are valid within temperature range of 18° C to 24°C unless otherwise noted.

1) NIST traceable calibration at -10dBm power level.

2) Linearity for loss <5dB and absolute power within 0 dBm to -65dBm.

3) Linearity for +3dBm to 0dBm, and -65dBm to 72dBm.