

OP710

Multichannel Optical Power Meter

Overview

Multichannel Optical Power Meter

The **OP710** 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** 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 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,
- +10dBm..-80dBm measurement range, 840nm ... 1700nm wavelength range.
- Great measurement resolution of 0.001 dB
- Tight linearity specifications: +/- 0.05dB

High speed parallel data acquisition

- Selectable sampling rate by OPL7 application from:
- 1 sample/sec ... 10 samples/sec

Integrated ambient temperature tracking

- The OP710 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		OP710-CC-IN	OP710-CC-IN1
Detail Specifications	Individual Channels (other counts available)	4 to 24	4 to 24
	Measurement Range	+3dBm..-80dBm	+10dBm..-80dBm
	Wavelength Range	830nm ..1700nm (InGaAs detector)	
	Selectable Wavelength	Standard: 850/980/1300/1310/1480/1550nm ¹⁾	
	Measurement Resolution (Display)	0.01dBm (absolute) 0.001dB(relative)	
	Measurement Linearity, Relative Accuracy	0.05dB ²⁾	0.05dB ²⁾ 0.1dB ³⁾
	Data Interface	USB 1.1 (or later) compatible data rate and interconnect	
	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	fixed ST, FC or SC	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.