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 with 4 to 24 channels and can be configured for an assortment of detector and connector interfaces. With the rack mount option, multiple instruments can be combined and configured for even higher channel counts.

Model OP710 Multichannel Optical Power Meter with 24 InGaAs detectors.
Universal detector interface with AD-LC and AD-25 detector adapters.

Features

- Up to 24 channels of individual optical power meters
- Measurement range
  - InGaAs: +6dBm to -72dBm
  - Silicon: +3dBm to -65dBm
- Broad wavelength spectrum
  - InGaAs: 830nm to 1700nm
  - Silicon: 400nm to 1100nm
- Relative accuracy of 0.02dB
- Measurement display resolution down to 0.001dB
- Variable sampling rate via software
- Can be controlled remotely via USB
- Integrated temperature monitoring
- Convenient 19-inch rackmount frame

OPL-7 Software

- Ability to log power from multiple OP710s
- Perform data acquisition up to 80 samples/second on more than 300 detectors simultaneously
- Store to Excel

OptoTest Corp.
4750 Calle Quetzal
Camarillo, CA 93012
Doc: DSOP710 Rev.B 2/25/15

1.805.987.1700
sales@optotest.com
engineering@optotest.com

SPECIFICATIONS

OptoTest
Test Solutions for Fiber Optics

Optical Power Meter	1mm InGaAs	3mm InGaAS	5mm InGaAs	10mm InGaAs	3mm Silicon
Measurement Range	+6dBm to -72dBm at 1490nm	+3dBm to -72dBm at 1490nm	0dBm to -65dBm at 1490nm	0dBm to -55dBm at 1490nm	0dBm to -65dBm at 980nm
Wavelength Range	850nm to 1650nm				400nm to 1100nm
Selectable Wavelength	Standard wavelengths (850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm)				Standard wavelengths (650nm, 850nm, 980nm)
Measurement Resolution (Display)	0.001dB				
Absolute Accuracy	±0.25 dB at calibration conditions for all NIST traceable wavelengths				
Measurement Linearity (Relative Accuracy)					
Deviation ± 0.05dB	+3dBm to -65dBm at 1490nm	0dBm to -65dBm at 1490nm	0dBm to -55dBm at 1490nm	0dBm to -45dBm at 1490nm	0dBm to -55dBm at 980nm
Deviation ± 0.01dB	<10dB power variation	<10dB power variation	<10dB power variation	<10dB power variation	<10dB power variation

Return Loss	1310nm/1550nm	1310nm/1490nm/1550nm/1625nm	850nm/1300nm
Source Wavelength	1310nm, 1550nm	1310nm, 1550nm, 1490nm, 1625nm	850nm, 1300nm
Calibrated Measurement Range	-10dB to -80dB	-10dB to -80dB	-10dB to -58dB
Measurement Linearity	±1dB (-12dB to -72dB)	±1dB (-12dB to -72dB)	±1dB (-10dB to -45dB)
Distance Range	100 meters (standard)/ 2500 meters (Rep Rate adjusted)	100 meters (standard)/ 2500 meters (Rep Rate adjusted)	100 meters (standard)/ 2500 meters (Rep Rate adjusted)

Insertion Loss	1310nm/1550nm LASER	1310nm/1490nm/1550nm/1625nm LASER	850nm/1300nm LED
Source Center Wavelength	±30nm from nominal	±30nm from nominal	±30nm from nominal
Source Bandwidth	<10nm	<10nm	<140nm
Internal Fiber	9/125µm (SMF28)	9/125µm (SMF28)	50/125µm, 62.5/125µm, 105/125µm
Launch Condition	N/A	N/A	Available upon request
Output Power	Typical -1.5dBm	Typical -2.5dBm	-18dBm: 62.5/125µm
Source Stability*	±0.02dB	±0.02dB	±0.02dB

** Over 1 hour with a max. change of 1°C*

Laser Classifications

All **OP930 Insertion Loss and Return Loss Test Sets** utilize a **Class I Laser Source**. Unless otherwise noted, all **OP250**, **OP715**, and **OP750** source units with internal laser sources utilize a **Class I Laser Source**. Unless otherwise noted, all **OP815** and **OP850 Insertion Loss Test Sets** with internal laser sources utilize a **Class I Laser source**. All **OP280 Visual Fault Finder** units utilize a **Class III Laser Source**.

OptoTest strongly suggests that all necessary precautions be taken whenever any Class I or Class III laser source is used.

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.
For additional specifications please contact OptoTest.

OptoTest Corp.
4750 Calle Quetzal
Camarillo, CA 93012
Doc: PS-GENSPECS Rev.A 11/19/14

1.805.987.1700
sales@optotest.com
engineering@optotest.com