### **OP735**

# OptoTest Test Solutions for Fiber Optics

### Benchtop Optical Power Meter



#### **Benchtop Optical Power Meter**

The OptoTest OP735 Benchtop Optical Power Meter can be configured with up to 4 channels and a mix of InGaAs, Silicon, and High Power Detectors. This unit is ideal as a compact, stand-alone power meter or used in conjunction with a stabilized light source to measure insertion loss.

Designed for high speed data acquisition on fiber optic components, the OP735 provides absolute or relative measurements with high resolution and tight linearity specifications.

The unique remote head solution gives the user more flexibility with hard to manage components or bulky fiber optic cables. Our series of detectors include a remote head or an Integrating Sphere which is ideal for bare or ribbon fibers. Adapters are available for all common connector types including FC, ST, SC, LC, etc.

# OPM 850 nm SS.S °F Optical Power Meter

Model OP735 Benchtop Optical Power Meter

### **Features**

- Up to 4 channels of individual optical power meters
- Broad wavelength spectrum

InGaAs: 830nm to 1700nm Silicon: 400nm to 1100nm

Measurement range

InGaAs: +6dBm to -72dBm Silicon: +3dBm to -65dBm

- Relative accuracy of 0.02dB
- Measurement display resolution down to 0.001dB
- Variable sampling rate via OPL-7 and custom DLL program
- Can be controlled remotely via USB
- Integrated temperature monitoring
- · Convenient benchtop size

### **OPL-7 Software**

- Ability to log power from multiple instruments
- Store to Excel

## **SPECIFICATIONS**



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		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

<sup>\*</sup> Over 1 hour with a max. change of 1°C



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.