

# OP735

## Benchtop Optical Power Meter

### Overview

The OptoTest **OP735** Benchtop Optical Power Meter can be configured up to 4 channels with 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.



Model OP735-IN1

Designed for high speed data acquisition on fiber optic components, the **OP735** provides absolute or relative measurements with high resolution and linearity. With the optional Wide Spectral Response (WSR) detector or Low PDL coating, these units can be used for myriad types of power measurements.

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

### Features

#### High precision fiber optic power measurement

- Up to 4 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

#### Integrated ambient temperature tracking

- The **OP735** measures the ambient temperature between -10 °C and +55 °C with a resolution of 0.1 °C.

#### High speed parallel data acquisition

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

CC = number of channels		OP735-CC-IN1	OP735-CC-S13
Detail Specifications	Individual Channels (other counts available)	1 to 4	
	Measurement Range	+10dBm..-80dBm	+3dBm.. -60dBm
	Wavelength Range	830nm ..1700nm (InGaAs detector)	480nm .. 1080nm
	Selectable Wavelength	Standard: 850/980/1300/1310/1480/1550nm <sup>1)</sup>	650/850/980
	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 (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	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.