

OP815

Insertion Loss Measurement

Overview

Insertion Loss

The **OP815** is ideal for measuring Insertion loss (IL) on fiber optical components is measured fast and accurately. The insertion loss is measured by utilizing the built in stabilized laser or LED source in combination with the precision optical power meter. IL measurement is completed in less than 1 second. Like all other OptoTest equipment the **OP815** supports the USB interface. The **OPL-Pro** turnkey application software fully integrates this instrument into the data acquisition process of the highly efficient production line.



Model OP815-LS-13/15 Insertion Loss Instrument.
Singlemode, dual wavelength 1310nm & 1550nm

Features

Efficient Manufacturing Process

- Compact (8.5x3.5x10) bench top instrument for all in-one operation.
- High speed USB Interface to standard computer
- Cable test software OPL-Pro available for writing measurement data directly into a spreadsheet.
- Interface to custom applications via DLL.

Insertion Loss Measurement

- Fully automated, single wavelength or dual wavelength insertion loss measurement.
- Multimode source with controlled launch condition available for under-fill, full-fill or over-fill.

Optical Power Measurement

- 'State of the Art' fiber optic power meter.
- Various detector options for single fiber or duplex fiber.
- EF certification available

	www=wavelength	OP815-LS-www/www	OP815-LD-www/www
Optical Power Meter			
Measurement Range		+10dBm ... -80dBm	
Wavelength Range		450nm..1080nm (InGaAs Detector)	830nm..1700nm (InGaAs Detector)
Selectable Wavelength		Standard: 630/650/660/780resp.850/1310/1550/1625nm ¹⁾	
Measurement Resolution (Display)		0.01dBm (absolute) 0.001dB (relative)	
Measurement Linearity, Relative Accuracy		0.02dB (loss<3dB) 0.05dBmax (max. 0dm ... -65dBm)	
Source		Laser	LED
Source Wavelength		1310nm, 1550nm ²⁾	850nm, 1300nm ²⁾
Output Power		Typ. 0 dBm (1mW)	Typ. -10dBm (0.1mW)
Connector Options		ST, FC, SC, LC (other upon request)	
Power		80VAC to 250VAC (50Hz, 60Hz)	
Mechanical Dimensions		8.5" x 3.5" x 12"	

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.
- 2) Linearity for loss <5dB and absolute power within 0 dBm to -55dBm.
- 3) Other wavelengths and combinations available.