

# OP815

## Insertion Loss Measurement

### Overview

#### Insertion Loss Measurement

Insertion loss (IL) on fiber optical components is measured fast and accurately with the OP815. The insertion loss is measured by utilizing the built in stabilized laser or LED source in combination with the precision optical power meter. 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 included for writing measurement data directly into a spreadsheet.
- Interface to custom applications via DLL.
- HPR Reference cable for ultimate precision loss measurements is included.

#### Insertion Loss Measurement

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

#### Optical Power Measurement

- State of the art fiber optic power meter.
- Various detector options for single fiber or duplex fiber.

Optical Power Meter		OP815-LS	OP815-LD
Detail Specifications	Measurement Range, limits	+6dBm..-80dBm	
	Measurement Range, +/-0.05dB linearity	+3 ... -65dB	
	Wavelength Range	830nm..1700nm	
	Selectable Wavelength	Standard: 850/980/1300/1310/1550/1625nm1)	
	Measurement Resolution (Display)	0.01dBm (absolute) 0.001dB (relative)	
	Measurement Linearity, Relative Accuracy	0.05dB2)	
	Source	<b>Laser</b>	<b>LED</b>
	Source Wavelength	1310nm+/-10nm	850nm+/-20nm
		1550nm+/-10nm	1300nm+/-30nm
	Source Options	1310nm, 1550nm or both3)	850nm, 1300nm or both3)
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)		
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. NIST traceable calibration at -10dBm. Linearity for loss <5dB and absolute power within 0 dBm to -55dBm. Other wavelength and combinations available.