

# OP815 D

## Dual Channel (Duplex) Insertion Loss Measurement

### Overview

#### Dual Channel Insertion Loss

The **OP815D** is ideal for measuring Insertion loss (IL) on duplex 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. Both channels are measured simultaneously such that a dual channels IL measurement is completed in less than 1 second. Like all other OptoTest equipment the **OP815D** 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 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.

	www=wavelength	OP815D-LS-www/www	OP815D-LD-www/www	
<b>Detail Specifications</b>	<b>Optical Power Meter - Dual Channel</b>			
	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 <sup>1)</sup>		
	Measurement Resolution (Display)	0.01dBm (absolute) 0.001dB (relative)		
	Measurement Linearity, Relative Accuracy	0.02dB (loss<3dB) 0.05dBmax (max. 0dm ... -65dBm)		
	<b>Source - Dual Channel</b>		<b>Laser</b>	<b>LED</b>
	Source Wavelength	1310nm, 1550nm <sup>2)</sup>	850nm, 1300nm <sup>2)</sup>	
	Output Power	Typ. -3 dBm	Typ. -15dBm	
	Source stability	+/- 0.05 dB 12hours	+/- 0.05 dB 12hours	
	Connector Options	ST, FC, SC, LC (other upon request)		
	Internal Fiber	9um(SMF28)	62.5um(100, 105SI optional)	
	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 wavelength and combinations available.