OP930-D

OptoTest
Test Solutions for Fiber Optics

Dual Channel (Duplex) Insertion Loss and Return Loss Meter

Overview

Insertion Loss & Return Loss Meter

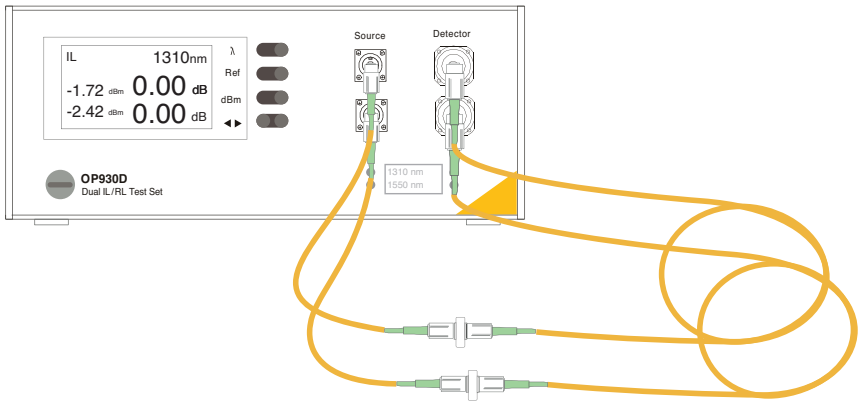
Ideal for testing duplex cables such as LC and SC cables, the **OP930-D** references and measures both channels simultaneously, in either a single mode or multimode configuration. Return loss is measured quickly and accurately without the need for mandrel wrapping or the use of index matching gel.

OPL-PRO turnkey software provides a simple PASS or FAIL based on the standards set by the customer and includes label printing or full reports through Excel.

OP930-D Dual Channel (Duplex) Insertion Loss and Return Loss Meter

Features

- Return loss measurements from 10dB to 80dB on single mode units and from 10dB to 58dB on multimode units
- Fully automated, concurrent measurements of insertion loss and return loss
- Multimode instrument uses LEDs for measuring IL with proper fill conditions to qualify GbE cables (Can be designed to meet encircled flux or other launch conditions such as 70/70)
- Various detector options for simplex, duplex, MTP/MPO multifiber connectors, and others
- Can be controlled remotely via USB using OPL Series software or OptoTest DLLs
- Integrated temperature monitoring
- Convenient benchtop size (19-inch rackmount frame available upon request)



OptoTest Corp.
4750 Calle Quetzal
Camarillo, CA 93012

Doc: DSOP930D Rev.B 2/25/15

1.805.987.1700
sales@optotest.com
engineering@optotest.com

SPECIFICATIONS

OptoTest
Test Solutions for Fiber Optics

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	850nm to 1650nm				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

** Over 1 hour with a max. change of 1°C*

Laser Classifications

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.

OptoTest Corp.
4750 Calle Quetzal
Camarillo, CA 93012
Doc: PS-GENSPECS Rev.A 11/19/14

1.805.987.1700
sales@optotest.com
engineering@optotest.com