OP930

OptoTest
Test Solutions for Fiber Optics

Insertion Loss & Return Loss Meter

Overview

Insertion Loss & Return Loss Meter

Insertion Loss (IL) and Return Loss (RL) on fiber optical components are measured fast and accurately with the **OP930**. The return loss is measured with the “no mandrel” method, meaning neither matching gel nor mandrel wraps are required at the far end of the cable. The insertion loss is measured by utilizing the stable transmitter of the Return Loss as the source in combination with the precision optical power meter.

Model OP930 Insertion Loss and Return Loss Meter

Like other OptoTest equipment the **OP930** supports the USB interface. The **OPL-PRO** turnkey application software fully integrates this instrument into the data acquisition process of the high efficient production line.

Features

Insertion Loss and Return Loss Measurement

- Fully automated, concurrent dual wavelength IL and RL
- Both readings, insertion loss and return loss at the same time
- Multimode return loss to qualify GbE cables
- USB Interface to custom application or included OPL9 application support writing directly to a spreadsheet
- HPR Reference cable included

Optical Power Measurement

- “State of the Art” fiber optic power meter
- Various detector options for single fiber, MT-RJ and MTP/MPO multifiber connectors
- Automated dual wavelength insertion loss measurement

Return Loss Measurement

- No mandrel wrap nor matching gel
- Singlemode: 10dB to >72dB Return Loss
- Multimode: 10dB to 50dB Return Loss

Detail Specifications	OP930-SM-13/15	OP930-MM-1300
Optical Power Meter		
Measurement Range	+10dBm ... -80dBm	
Wavelength Range	830nm ... 1700nm (InGaAs Detector)	
Selectable Wavelength	Standard: 850/1310/1550/1625nm [1]	
Measurement Resolution (Display)	0.01dBm (absolute), 0.001dB (relative)	
Measurement Linearity, Relative Accuracy	0.05dB [2]	
Return Loss Meter		
Source Wavelength	1310nm, 1550nm or both	850nm or 1300nm
Measurement Range	10dBm ... 72dBm	10dBm ... 52dBm
Optical Interface	SM: 0.5dB <50dB, 1dB >50dB MM: 0.5dB <45 dB	
Power Supply	0.1 dB	
Distance Range	2.5m ... 2400m	

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 -3dBm...-45dBm.

OptoTest Corp.
4750 Calle Quetzal
Camarillo,CA 93012

805.987.1700
sales@optotest.com
engineering@optotest.com