OP940

OptoTest Test Solutions for Fiber Optics

Insertion Loss & Return Loss Meter

Overview

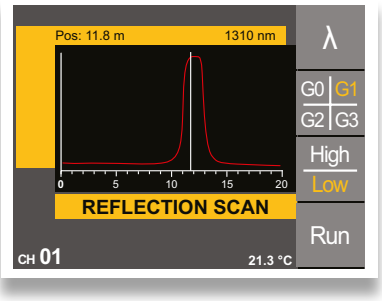
Insertion Loss & Return Loss Meter

The OP940 uses the “no mandrel” method to quickly and accurately measure Insertion Loss (IL) and Return Loss (RL) on fiber optic components. It features an Optical Reflectance Scan Mode, Programmable Pass/Fail for Multiple Test Criteria, On Screen Context Help, and a new color LCD screen. Additionally, the OP940 can measure return loss at two positions simultaneously through the front panel. It offers expandable functionality and remote updating capabilitites.

Features

Insertion Loss and Return Loss Measurement

- Fully automated, concurrent dual wavelength IL and RL
- Display IL and RL simultaneously
- Front panel optical reflectance trace
- Set RL reference position and value
- Measures RL at multiple connection points through front panel
- Programmable pass/fail for multiple test criteria
- Expandable functionality
- On screen help
- Configurable timer settings, such as Dwell Times
- User accessible source connector
- Color display
- Easy to use



Scan mode with reflection at 11.8m

Optical Power Measurement

- State of the Art fiber optic power meter
- Various detector options for measuring simplex to multifiber connectors
- Automated dual wavelength insertion loss measurement

Return Loss Measurement

- No mandrel wrap nor matching gel
- Singlemode: 10dB to 80dB Return Loss
- Multimode: 10dB to 58dB Return Loss

Detail Specifications

	OP940-SM-13/15	OP940-MM- 85/13
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	10dB ... 80dB	10dB ... 58dB
Absolute Accuracy	SM: 0.5dB <50dB, 1dB >50dB MM: 0.5dB <45 dB	
Repeatability	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.

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