OptoTest

Test Solutions for Fiber Optics

Parameter Testing of FTTX Components

Insertion Loss Measurement

Return Loss Measurement

www.optotest.com | 1.805.987.1700

Insertion Loss and Return Loss Meter for FTTX Wavelengths

Insertion Loss (IL) and Return Loss (RL) on fiber optic components are measured fast and accurately with the **OP940**. Return loss is measured with the “no mandrel” method, meaning neither index matching gel or mandrel wraps are required at the far end of the cable. Insertion Loss is measured by utilizing the stable transmitter of the Return Loss module as the source in combination with the precision optical power meter.

Like other OptoTest equipment, the **OP940** supports the USB interface. The **OPL-Suite** of turnkey software applications fully integrates this instrument into the data acquisition process of a highly-efficient production line.

Features:

- Simultaneous Insertion and Return Loss readings
- Insertion Loss and Return Loss for FTTX
- Compact, space saving instrument
- Stabilized laser sources for IL measurement at 1310nm, 1490nm, 1550nm and 1625nm
- Easy-to-use OPL-Pro data logging application

OP940-FTTX

Optical Power Meter	
Measurement Range	+10dBm to - 80dBm
Wavelength Range	830nm to 1700nm
Calibration Wavelength	850/1310/1490/1550/1625 nm
Measurement Resolution (Display)	0.01dBm (absolute) 0.001dB (relative)
Measurement Linearity (+3dBm to -65dBm) Relative Accuracy	0.05dB, 0.02dB (loss <10dB)
Optical Source	
Source Wavelengths	1310nm ± 10nm 1490nm ± 10nm 1550nm ± 10nm 1625nm ± 10nm
Source Output Power	typical 0dBm
Source Stability	±0.02dB (1hr) ±0.05dB (12hr)
Return Loss Meter	
Measurement Range	10dB .. 80dB
Absolute Accuracy	±1dB (10dB to 65dB) ± 2dB (>65dB) ± 5dB (>72dB)
Resolution	0.1dB
Distance Range	up to 2400m

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DSFTTX_BROCHURE Rev.B