

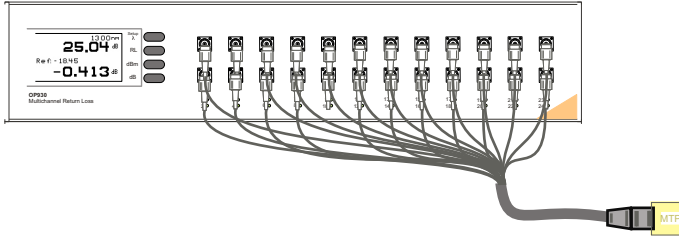
MF Test

Multi Fiber Test

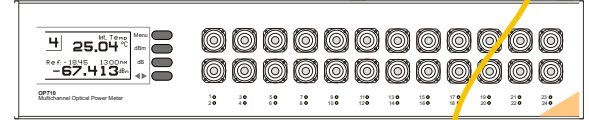
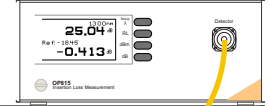
Overview

Multi Fiber Test

24 Channel Return Loss & Source



Large Area Detector OPM



24 Channel Optical Power Meter



Features

The OP930 is based on a high resolution reflectometer with a dynamic range from 10dB to 72dB. A reflectometer measures the reflections of components spatially right at the connector under test there is no mandrel wrap or matching gel needed at the far end of the cable to be measured.

- **Multichannel Return Loss Measurement**
The internal switch of the OP930 can be factory configured from 2 channel to 24 channels. For a higher channel count a single channel OP930 is connected to an external switch of any size. All those configurations are support by OPL-MAX and OPL-LOG.
- **Concurrent Dual Wavelength Measurement**
The Return Loss can be measured at two wavelength concurrently saving measurement time in the production environment.
- **CW Mode for stable Insertion Loss Measurement**
The OP930 supports a CW source mode. For the Return Loss measurement the laser sources are pulsed in the nanosecond region. For certain measurements a continuous modulated (CW) light signal is a required.

- **Insertion Loss Measurement**

The OP710 OPM is built up with individual power meters, one per optical port. This allows for simultaneous data acquisition over all channels which reduces the process time. The optical power meter offers a wide measurement range from +10dbm to -80dBm with 0.001dB resolution and tight linearity specification. Depending on the detector it typically covers the wavelength range of 840nm to 1700nm.

- **Large Area Detectors**

To measure power levels on ribbon fibers terminated with any of the MT connectors styles following large area detector options are supported:

either a 5mm wide (for singlemode), a 10mm wide (for

- Single mode fiber 5mm Detector Integrating Sphere
- Single mode fiber 10mm Detector Integrating Sphere
- Multimode fiber Integrating Sphere
- Bare ribbon fiber, any type Integrating Sphere1

- **USB powered, plug&play data acquisition**

All OptoTest instruments are equipped with the USB 1.1/2.0 compatible data port and support data rates up to 0.2 MB/s with the appropriate drivers.

Applications

OPL-LOG

- Timer based data acquisitions
- Captures Insertion Loss, Return Loss and Temperature
- Supports multiple instruments and optical switches
- Writes directly into EXCEL files
- User configurable sequencer, connect any of 96 source channels to any of 96 OPM channels.

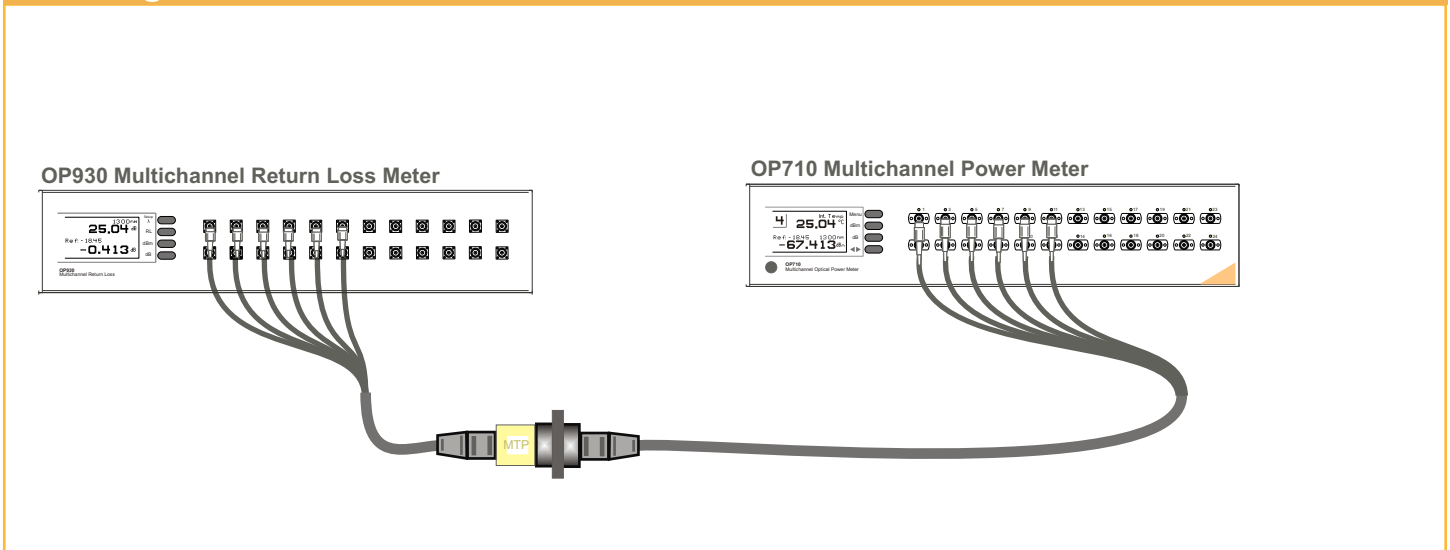
OPL-MAX

- Serialized Cable Test
- Captures Insertion Loss and Return Loss
- Support Bidirectional Testing
- Writes directly into EXCEL files
- User configurable sequencer, connect any of 96 source channels to any of 96 OPM channels.
- Pass/Fail criteria based on termination table.

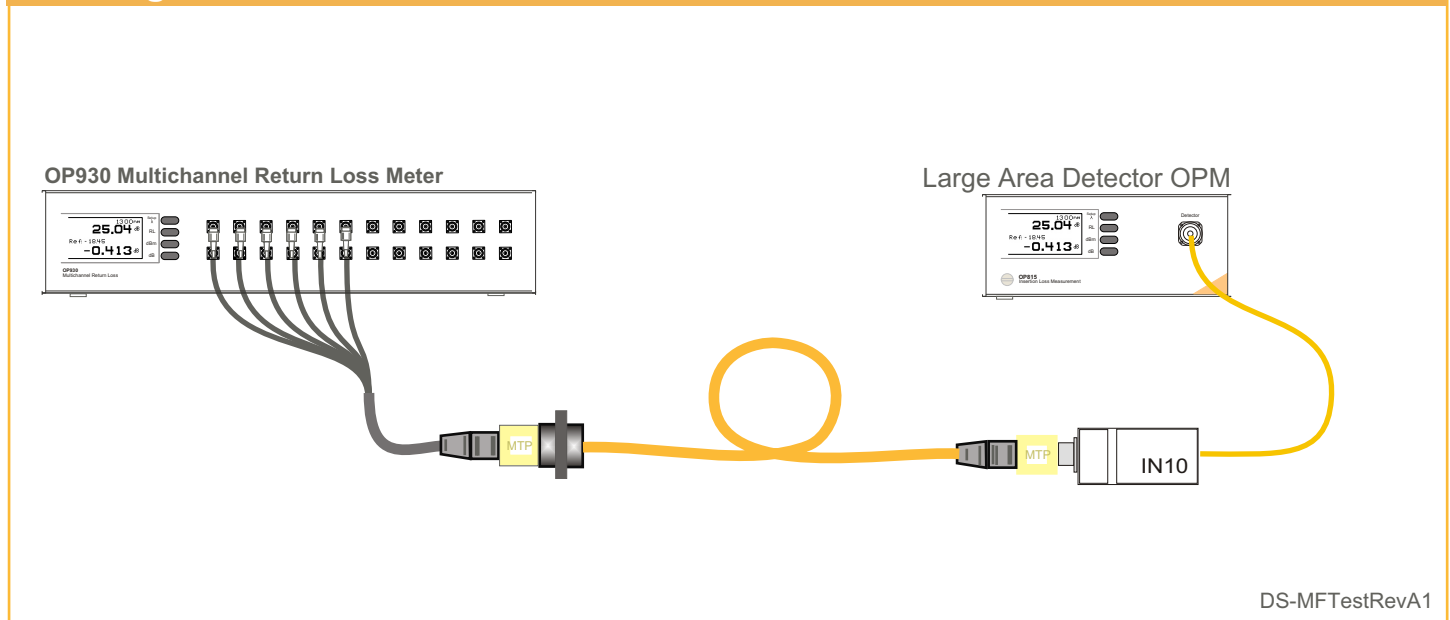
Detail Specifications

Optical Power Meter	1 Channel ... 24 Channels	
Measurement Range	+10dBm...-80dBm	
Wavelength Range	830nm .. 1700nm (InGaAs Detector)	
Selectable Wavelength	Standard: 850/1310/1550/1625nm	
Measurement Resolution (Display)	0.01dBm (absolute) 0.001dB(relative)	
Measurement Linearity, Relative Accuracy	0.05dB	
Return Loss Meter	1 Channel ... 24 Channels	
Source Wavelength [nm]	1310, 1480, 1550, 1625	850 or 1300
Measurement Range	10dBm ... 72dBm	10dBm ... 50dBm
Absolute Accuracy	SM: 0.5dB <50dB 1dB >50dB MM: 0.5dB <45 dB	
Resolution	0.1 dB	
Distance Range	2.5m .. 10m (8ft .. 66ft)	

Testing of MTP Break-Outs



Testing of MTP Patch Cords



DS-MFTestRevA1