

# OP-METS

## Multichannel Environmental Test Station

### Overview

#### Multichannel Environmental Test Station

The OP Multichannel Environmental Test Station **OP-METS** is optimized for environmental testing of up to 144 single mode or multimode fiber assemblies or passive components.

### Features

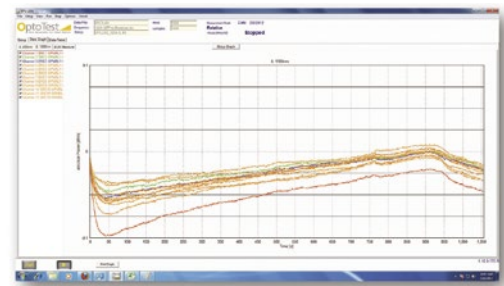
- Mandrel free Return Loss testing
- Multimode and Single Mode wavelengths:  
850 / 1300 / 1310 / 1490 / 1550 / 1625nm
- Multimode IL sources can be configured to meet IEC/TIA specifications (Encircled Flux) – *upon request*
- Stability testing with flexibility for unique configurations
- Unparalleled Insertion Loss stability
- Can run up to two tests simultaneously\*



OP-METS Test Tower

#### OPL-LOGMT

**OPL-LOGMT** is a data acquisition and logging software that controls OptoTest instruments via USB along with thermal chambers and sensors\*\* for monitoring testing parameters. **OPL-LOGMT** provides graphs for IL, RL, and supported data acquisition devices and records the data in an Excel spreadsheet. This logging capability makes **OPL-LOGMT** well-suited for standards compliant long-term testing of fiber optic components. Tests can be configured to perform measurements at arbitrary, fixed time intervals over an arbitrary duration. For increased testing efficiency, **OPL-LOGMT** can run two simultaneous tests with different configurations on a single **OP-METS** system.\* The **OP-METS** system and the accompanying **OPL-Log** software can be further customized for your application requirements.



OPL-LOG Data Logging Software showing a graph of the change in optical power over time

\* Due to the physical configuration of the OP-METS system, each test is performed sequentially.

\*\* Contact OptoTest for supported chambers and sensors.

# SPECIFICATIONS

OPMETS	Multimode	Single Mode
Source Channels	Up to 144 Channels	
Insertion Loss Source	850nm, 1300nm Launch Condition TIA compliant (upon request)	1310nm, 1550nm 1490nm, 1625nm
Return Loss Source	850nm, 1310nm	1310nm, 1550nm 1490nm, 1625nm
Source Stability	+/-0.02dB (0.05dB)	
Optical Power Meter Range	IN1: +10dBm to -80dBm IN3: +6dBm to -70dBm SI3: +3dBm to -70dBm IN5: +6dBm to -60dBm IN10: 0dBm to -45dBm	
Insertion Loss Accuracy	+/- 0.05dB	
Return Loss Range	-10dB to -55dB	-10dB to -80dB
Return Loss Accuracy	+/-1dB	
Channel Repeatability	+/-0.05dB	

## 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.