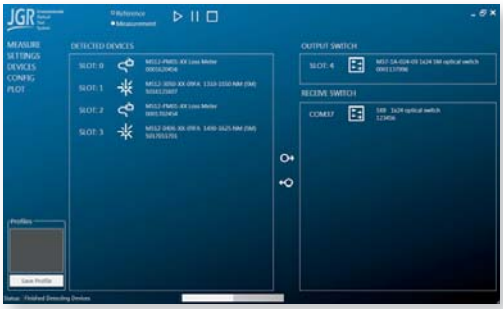
EOTS | Environmental Optical Test System



Product Description

Built upon the same technology as the industry leading MS12 Return Loss Meter and SX8 Optical Switches the EOTS Environmental Optical Test System provides a fully integrated solution for long-term testing of optical components. With its capability to measure Insertion Loss (IL) and mandrel free Return Loss (RL) of up to 210 channels, the EOTS is the perfect solution to perform compliance testing of components being stressed in environmental simulations.

KEY FEATURES

- Mandrel free Return Loss testing
- 4 Single-mode lasers built-in
- Available for Single-mode and Multimode
- EF compliant for Multimode
- Bi-directional or Unidirectional
- Win 7/8/10 compatibility

APPLICATIONS

- Passive optical components design and validation
- Patchcord and cable assembly certification
- Compliance testing

COMPLIANCE

- Conforms to GR-326-CORE, GR 1435 CORE, GR-910-CORE, GR 1209-CORE, GR-2866-CORE, Verizon FOC

IN THE SYSTEM

- 19" Rackmount cabinet
- MS08B mainframe
- MS12 module(s)
- 1XN optical switches
- Computer and display
- 1500 VA UPS
- EOTS application

Ordering Scheme

EOTS- □□□ - □□□□ - □□□□□□

NUMBER OF CHANNELS	
024	24
025	25
026	26
...	...
209	209
210	210

SOURCES	
8300	850/1300 nm
3050	1310/1550 nm
3456	1310/1490/1500/1625 nm

FIBER TYPE	
09	Single-mode 9 µm
50	Multimode 50 µm
62	Multimode 62.5 µm

CONNECTOR TYPE	
FA	FC/APC
SA	SC/APC

BULKHEAD PANEL POSITION	
L	Left
R	Right

CONFIGURATION	
U	Unidirectional
B	Bi-directional

Example:

EOTS-128-3050-09FCLU

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Specifications

OPTICAL/ELECTRICAL SPECIFICATIONS	
Parameter	Specification
	Single-mode
Fiber type (µm)	9/125
Operating wavelengths (nm)	1310, 1490, 1550 or 1625
Maximum number of channels	210
Source stability over 24 hours (dB) [1,2]	± 0.01
Insertion Loss Dynamic Range	≥ 50
Insertion Loss Uncertainly (dB)	± 0.03 [1]
Insertion Loss Stability (dB)[3]	± 0.004
Return Loss (dB)	30 to 80
Return Loss Accuracy (dB)	± 1.0 (30 to 70)
	± 1.7 (70 to 75)
	± 2.2 (75 to 80)
Return Loss Repeatability (dB)[4]	± 0.1 (30 to 65)
	± 0.2 (65 to 70)
	± 0.4 (70 to 75)
	± 1.5 (75 to 80)
Power Consumption	~ 400 VA
Power Backup[2]	5 hours
Computer Control	Core i5, 8GB RAM and 2x 1TB hard drives in RAID 1 configuration for full data redundancy

Notes:

[1] For IL ≤ 50 dB over 100 hours

[2] With included Tripplite 1500VA Uninterruptible Power Supply

[3] For simplex measurements using FC detector adapter. Uncertainty for MTP to MTP, MT-RJ to MT-RJ, MTP to fanout is ± 0.06dB (reported with a level of confidence of 95%). This does not include uncertainties due to connector, connector adapter or switch PDL.»

[4] For a stable connection over a period of 15 minutes.

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS	
Parameter	Specification
Mechanical Configuration	All equipment is installed in a single bay 35U 19" rack with removable covers and doors. Cabinet includes casters and levelers, front & rear doors to access instruments. Side access panel with FC bulkheads.
Cabinet dimensions W x H x D (in)	24 x 68.83 x 32.42
System Weight (kg)	~ 180
Total Shipment Weight (kg)	4
Operating Temperature (°C)	0 to 40
Humidity (Non-condensing) (°C)	Maximum 80% RH from 0 to 40