SmartClass™ Fiber MPOLx

MPO Optical Loss Test Sets

Power Meter

Specification	Description
Optical Interface	MPO-12 Interface pinned. Compatible with 50/125 µm/PC Multimode MPO-12, 9/125 µm/APC Singlemode MPO-12. MTP Adapter with Shutter
Detector Type	InGaAs
Wavelength Range	850 to 1550nm
Wavelength Settings	850nm, 1300nm, 1310nm, 1550nm
Calibrated Wavelengths	Multimode: 850nm, 1300nm Singlemode: 1310nm, 1550nm
Power Measurement Range	-50 to +3 dBm
Max. Permitted Input Level	+3 dBm
Overall Measurement Uncertainty[1]	Multimode: ± 0.7 dB ± 1 nW Singlemode: ± 0.6 dB ± 1 nW
Linearity	±0.15dB
Measurement Units	dB, dBm
Display Resolution	0.01 dB
Power Meter Functions	Absolute, relative, pass/fail
Warm-Up Time	20 minutes

1. Under reference conditions at calibrated wavelengths, -5 to +45°C.

Light Source

Specification	Multimode	Single-Mode
Optical Interface	MPO-12 Interface pinned, 50/125 µm/PC Multimode. MTP Adapter with Shutter	MPO-12 Interface pinned, 9/125 µm/APC Singlemode. MTP Adapter with Shutter
Source Type and Wavelengths	LED source 850 nm ± 20 nm 1300 nm ± 20 nm	Fabry-Perot laser diode 1310 nm ± 20 nm 1550 nm ± 20 nm
Spectral Width (FWHM)	<170nm	<5nm
Launch Condition	Encircled Flux compliant to TIA-526-14B and IEC 61280-4-1[2]	
Output Power[3]	-26 dBm	-6 dBm
Stability[4] 15 min/8 hr	±0.05 / 0.25 dB	
Source Mode	CW	

2. At the output of the EF-TRC. Variations between EF measurement equipment may occur but EF compliance can be expected with a 95% confidence factor. Valid for IEC 61280-4-1 at 850 nm.
3. Typical output
4. Single Channel, +5 to +45°C with ΔT = ±0.3 K after a 20-minute warm-up

Loss/Length Application

Specification	Multimode	Single-Mode
Testing Speed for 12 Channels[5]	< 10 seconds (typ. 6 seconds)	
Pass/Fail Limit Standards	Link validation TIA-568.3-E ISO 14763-3 40 GBASE SR4 100 GBASE SR4 100 GBASE SR10	Link validation TIA-568.3-E ISO 14763-3
Fiber Types	50/125 µm	9/125 µm
Nominal Test Wavelengths	850/1300 nm	1310/1550 nm
Maximum Length Measurement	1 km	10 km
Length Measurement Accuracy	±1.5 m ±1% of length	
Loss measurement uncertainty[6,7]	±0.15dB	

5. Excludes referencing and connection times
6. Excluded fiber connector uncertainties
7. After 20 min warm up, at constant temperature, no charging. For multimode loss measurements with 50/125 µm fibers (NA = 0.20). For single-mode loss measurements with 9/125 µm fibers (NA = 0.10)

Patchcord Microscope (PCM)[8]

Specification	Description
Interface	FMAX adapters
Auto Pass/Fail Analysis Standards	IEC 61300-3-35 and custom limits
Live Image	320 x 240 x 8 bit grey, 10 fps
Light Source	Blue LED, 100.000+ hours life
Lighting Technique	Coaxial
Magnification field-of-view low/high	Horizontal: 740/370 µm Vertical: 550/275 µm
External USB connected P5000i digital inspection probe supported	

8. PCM models include 2330/11S, 2330/01S and 2330/31

General

Specification	Without PCM	With PCM
Display	High-contrast 3.5" color LCD with touch-screen functionality	
Data Memory	Up to 10.000 loss test results (>1000 including inspection)	
Data Readout	Via client USB interface, and wireless via USB WiFi/Bluetooth dongle	
Electrical Interfaces	2 x USB host, 1x micro USB, Ethernet	
Power Supply	12 V, 2A with interchangeable wall plug for EU, UK, US, and AU	
Battery	Li-ion pack 3.7 V, 20 Wh (optional 8 NiMH/dry batteries)	
Battery Life (Li-ion battery pack)	>12 hr	
Recommended Recal. Interval	3 years	
Dimensions (H x W x D)	208 x 112 x 64 mm (8.2 x 4.4 x 2.5 in)	208 x 153 x 64 mm (8.2 x 6.0 x 2.5 in)
Weight[10]	600 g (1.6 lb)	750 g (1.85 lb)
Operating Temperature Range	–5° to +45°C (23° to 113°F)	
Storage Temperature Range	–25° to +55°C (–13° to 131°F)	

9. Includes rechargeable battery

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