VIAVI Solutions

Data Sheet

VIAVI
SmartClass™ Fiber MPOLx MPO Optical Loss Test Sets

Power Meter

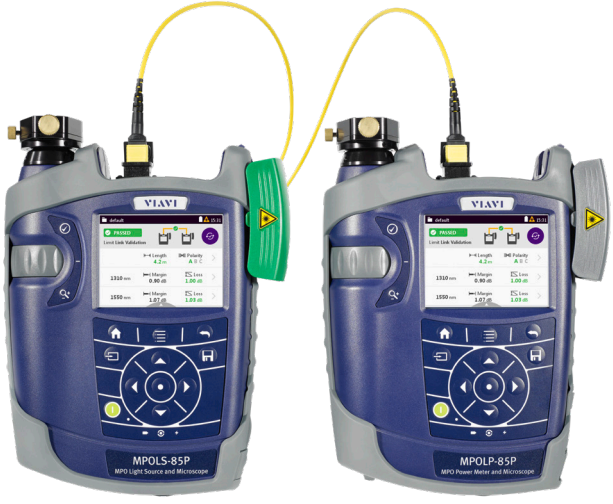
Specification	
Optical interface	MPO-12 Interface pinned. Compatible with 50/125 µm/PC Multimode MPO-12, 9/125 µm/APC Singlemode MPO-12. MTP Adapter with Shutter
Detector type	InGaAs
Wavelength range	850 to 1550nm
Wavelength settings	850nm, 1300nm, 1310nm, 1550nm
Calibrated wavelengths	Multimode: 850nm, 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[1]	
Output power[2]	-26 dBm	-6 dBm
Stability[3] 15 min/8 hr	±0.05 / 0.25 dB	
Source mode	CW	

1. 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.
2. Typical output
3. 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[1]	6 seconds max	
Pass/fail limit standards	Link validation 40 GBASE SR4 100 GBASE SR4 100 GBASE SR10	Link validation PSM4
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[2,3]	±0.15dB	

1. Excludes referencing and connection times
2. Excluded fiber connector uncertainties
3. 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)[1]

Specification		
Interface		FMAE MPO[2] (many other adapters available)
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		

1. PCM models include 2330/11S, 2330/01S and 2330/31
2. Single-Mode ships with MPO APC adapter and Multimode ships with MPO adapter

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 adapter (option)	
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[1]	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)	

1. Includes rechargeable battery

Ordering Information:

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