VIAVI

OLTS-85/85P SmartClass™ Fiber Optical Loss Test Sets

Specifications

Power Meter

Specification			
Optical interface	Interchangeable adapter LC/PC, LC/APC (optional: SC, ST, FC, DIN, E2000 and UPP 2.5 mm and UPP 1.25 mm)		
Detector type	InGaAs		
Wavelength range/settings	800 to 1700 nm/in 1 nm steps		
Calibrated wavelengths	850, 980, 1300, 1310, 1490, 1550, 1625 nm		
Power Measurement Range	–75 to +15 dBm		
Max. permitted input level	+15 dBm		
Absolute measurement uncertainty1	±0.13 dB (±3%)		
Linearity	0.1 dB		
Automatic offset nulling	Yes		
Measurement units	dB, dBm, Watt		
Display resolution	0.01 dB/0.0001 µW		
Power meter functions	Absolute, relative, pass/fail, Auto $\boldsymbol{\lambda}$		
Warm-up time	None, instant-on		
1 Under reference conditions: at 1310 nm +1 nm =20 dBm (CW) 23°C +3K 9 um test			

1. Under reference conditions: at 1310 nm ± 1 nm, -20 dBm (CW), 23°C $\pm 3K,$ 9 μm test fiber.

Light Source

Specification	Multimode	Single-Mode	
Optical interface	Interchangeable adapter FC/PC (optional: SC, ST and LC adapters)	Interchangeable adapter SC/PC (optional: FC, ST and LC adapters)	
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	50/170 nm	5/5 nm	
Launch condition	Encircled Flux compliant to TIA-526-14 and IEC 61280-4-1 ²		
Output power settable in 0.1 dB steps	−20 to −23 dBm	0 to -3 dBm	
Stability ¹ 15 min/8 hr	±0.02/0.2 dB	±0.02/0.2 dB	
Source modes	CW, tone, auto-λ, multi-λ		
Tone generator	270 Hz, 1 kHz, 2 kHz		

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1. At constant temperature, after a 20-minute warm-up.

 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.

Tier 1

Specificatio	n	Multimode	Single-Mode
Testing speeds ¹	Remote mode	<6 seconds	
	Loopback mode	≤3 seconds	
Pass/fail limit standards		TIA 568.3, ISO 11801 and ISO/IEC 14763-3, link validation	
Fiber types		50/125 μm or 62.5/125 μm	9/125 µm
Nominal test wavelengths		850/1300 nm	1310/1550 nm
Maximum length measurement		12 km	100 km
Length measurement accuracy ²		\pm 1.5 m plus \pm 1% of length	
Loss measurement uncertainty ³		<0.2 dB	

1. Two wavelengths, one direction, auto wavelength detection (excludes referencing and connection times).

2. For multimode up to 1 km range, for singlemode up to 10 km range.

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

Specification				
Optical interface		FMAE LC duplex (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		
Eutomal LICD comported DECOOi digital increation prohe supported				

External USB connected P5000i digital inspection probe supported

General

Specification	OLTS-85	OLTS-85P	
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		
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	750 g (1.6 lb)	850 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)		

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