

VIAVI OLTS-85/85P

OPTISCHES LOSS TEST SET

Die VIAVI OLTS-85/85P Handgeräte sind die schnellsten und einfachsten Testlösungen für Tier 1 Glasfaser-Zertifizierung



- Komplette Tier 1 Glasfaser-Überprüfung für TIA/ISO/IEC Standards
- MM, SM und Quad Versionen
- Faser-Endflächen-Prüfung mit automatisierter Pass/Fail-Analyse vorort oder bei Remote-Geräten
- Integrierte Messdatenspeicherung
- Kurze Einschalt-Zeit
- Einfach-erstellte Glasfaser-Zertifizierungsberichte
- 3.5" Farb-Touch-Screen
- Test-Datenmanagement mit J-Reporter
- Überwachung des End-to-End Workflows mit CERTiFi
- Schnellberichte mit FiberChekPRO Software erstellen
- All-day Batterie-Laufzeit



LEISTUNGSMESSER

SPECIFICATION	
Optical interface	Interchangeable adapter LC/PC, LC/APC (optional 2014-style adapters: 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, 1310, 1490, 1550, 1625 nm
Power Measurement Range	-75 to +15 dBm
Max. permitted input level	+15 dBm
Absolute measurement uncertainty ¹	±0.15 dB (±3.5%)
Overall measurement uncertainty ^{2, 3}	850 nm ±0.35 dB ±0.25 nW 980 nm ±0.35 dB ±0.25 nW 1310 nm ±0.25 dB ±0.05 nW 1490 nm ±0.25 dB ±0.05 nW 1550 nm ±0.25 dB ±0.05 nW 1625 nm ±0.35 dB ±0.05 nW
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, Tone detection
Warm-up time	None, instant-on

1. Valid for calibrated wavelengths 1310 nm, 1490 nm, 1550 nm at reference conditions, at -22 dBm (CW), 23°C ±3K, 9µm test fiber with SC/PC ceramic connector. Intrinsic uncertainty for calibrated wavelengths 850nm (at -20dBm), 980 nm (at -22dBm) and 1625nm (at -22dBm) is ±0.25 dB (±6%)

2. -75 dBm to +26 dBm, -5°C to +45°C

3. Overall measurement uncertainty for 800 to 1700 nm: 800 nm to 1300 nm: ±0.7 dB ±25 nW
1300 nm to 1550 nm: ±0.4 dB ±5 nW
>1550 nm: ±0.7 dB ±5 nW

LICHTQUELLE

SPECIFICATION	MULTIMODE	SINGLE-MODE
Optical interface	Interchangeable adapter FC/PC (optional 2155-style adapters: SC, ST, and LC)	Interchangeable adapter SC/PC (optional 2155-style adapters: FC, ST and LC)
Source type and wavelengths	LED source 850 nm $\pm$ 20 nm 1300 nm $\pm$ 20 nm	Fabry-Perot laser diode 1310 nm $\pm$ 20 nm 1550 nm $\pm$ 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	$\pm$ 0.02/0.2 dB	$\pm$ 0.02/0.2 dB
Source modes	CW, tone, auto- λ , multi- λ	
Tone generator	270 Hz, 1 kHz, 2 kHz	

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

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.

LOSS/LENGTH (TIER 1)

SPECIFICATION	MULTIMODE	SINGLE-MODE
Testing speeds ¹ Remote mode Loopback mode	<6 seconds 3 seconds	
Pass/fail limit standards	TIA 568.3, ISO 11801 and ISO/IEC 14763-3, link validation	
Fiber types	50/125 μ m or 62.5/125 μ m	9/125 μ m
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 μ m fibers (NA = 0.20). For single-mode loss measurements with 9/125 μ m 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 Vertical	740/370 μ m 550/275 μ m
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, 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	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)	