

FX45 Series



Optical Power Meter (OPM)
Optical Light Source (OLS)
Optical Loss Test Set (OLTS)

Key Features

- Singlemode and Multimode testing
- PON, Telecom, CATV and LAN/WAN applications
- Dual wavelength laser source and power meter
- OPM, OLS, OLTS configurations
- High accuracy and wide dynamic range
- Save OPM measurements (>1000 single results) with timestamp
- Transfer stored results to a PC or Mobile Device (Android) via USB for report generation and subsequent processing
- Reference power level setup and recall
- Frequency detection for fiber identification
- Wave ID automatically detects incoming wavelength from compatible VeEX light source
- Uni-directional loss testing with power meter and light source ports (OLTS)
- Splash resistant keypad and chassis design
- High contrast backlit, monochrome display - Visible outdoors and indoors in varying light conditions
- Alkaline or rechargeable batteries with Auto power off
- Field interchangeable OPM adapters support multiple connector types and allow easy access for cleaning

Key Specifications

Optical Power Meter (OPM)

- Calibrated wavelengths: 850, 1300, 1310, 1490, 1550, 1625, 1650 nm
- Detector type: InGaAs
- Level measurement range:
 - PM1 version: -65 to +10 dBm
 - PM2 version: -50 to +25 dBm
- Accuracy: +0.2 dB or 5%
- Wave ID detection (compatible VeEX source): 1310, 1490, 1550, 1625, & 1650 nm

Optical Light Source (OLS)

- Wavelengths: 1310/1490 nm or 1310/1550 nm
- Source Type: FP/DFB Laser or FP/FP Laser
- Test Tone Generation: 270 Hz, 330 Hz, 1 kHz, 2 kHz
- Stability: ± 0.03 dB for insertion loss measurements
- Laser Safety: Class 1

General

- Uni-directional loss measurement (OLTS configuration)
- Communication port: Micro USB
- Connector or Adaptor types: FC/SC/ST/LC, Universal 1.25, Universal 2.5 mm
- CE compliant
- Battery operating time: ± 80 hours (without backlight)



Value added data post processing

Fiberizer Cloud

cloud.fiberizer.com



OPM and OLTS test results can be easily transferred to a Windows PC or Mobile device via USB connection. Fiberizer LT-Sync PC software and Fiberizer Mobile (Android) applications support test result filtering and basic report generation. Fiberizer Desktop Plus and Cloud software applications provide advanced processing and reporting including centralized test data management and archiving.

Optical Specifications

Light Source		
Parameter	Singlemode	Multimode
Wavelength (nm)	1310/1490 or 1310/1550 ±20 nm	850/1300 ±20 nm
Output Power (dBm)	>-2.5	
Power Stability (dB)	≤±0.03 (15 min), ≤±0.1 (8 hrs)	<±0.05 (15 min)
Modulation	CW, 270 Hz, 330 Hz, 1 kHz, 2 kHz, WaveID	
Spectral width (nm)	<3	<10
Optical Connector Types	Fixed or Universal adaptors (FC, SC, LC)	
Optical Interface	UPC or APC (optional)	
Power Meter		
Calibration Wavelengths (nm)	850/1300/1310/1490/1550/1625/1650	
Wavelength Range (nm)	800-1700	
Power Range (dBm) Options - Standard (PM1), InGaAS (1 mm) - High (PM2), InGaAS (1 mm)	-65 to +10 -50 to +25	
Power Measurement Accuracy, % (dB)	±5 (±0.22)	±8 (±0.33)
Linearity, % (dB) from -5 to -50 dBm	±2 (±0.06)	±4 (±0.17)
Test Modes	Absolute (dBm, mW & W), Relative (dB)	
Resolution (dB)	0.01	
Test Tone Detection	270 Hz, 330 Hz, 1 kHz, 2 kHz	
Optical Adaptors (Interchangeable)	ST/SC/FC/LC, Universal 2.5/1.25 mm	

General Specifications

Size:	129 x 61 x 38 mm (H x W x D)	Connectivity:	Micro USB interface, data transfer via Fiberizer mobile and LT-Sync software applications
Weight:	<310 g (<0.7 lbs.) OPM configuration	Storage:	>1000 single wavelength results
Construction:	Rugged, Polycarbonate chassis, 1 meter drop tested	Display:	High contrast, 28 x 23 mm (35 mm), B&W transfective LCD, 96 x 80 pixels with backlight
Battery:	Two Alkaline AA or Rechargeable NiMH, 2150 mAh	Operating Temp:	-10 °C to +50 °C
Power Supply:	Micro USB interface, 5 VDC charger	Storage Temp:	-20 °C to +70 °C
		Humidity:	0% to 95%, non-condensing