

FX45 Series



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

Key Features

- Singlemode and Multimode testing
- PON, Telecom, CATV and LAN/WAN applications
- Dual wavelength laser source and power meter
- OPM, OLS, ORL, OLTS configurations
- High accuracy and wide dynamic range
- Save OPM measurements (> 1000 single results) with timestamp
- Transfer stored results to a PC via USB for report generation, printing and Fiberizer Cloud upload
- Reference power level setup and recall
- Frequency detection for fiber identification
- Wave ID automatically detects incoming wavelength from compatible VeEX light source
- ORL and bidirectional loss testing with calibrated power meter coupled internally to fiber on light source port
- Splash resistant keypad and chassis design
- High contrast display - Visible outdoors and backlight for indoor or low 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
- 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): 850, 1300, 1310, 1490, 1550, 1625, & 1650 nm

Optical Light Source (OLS)

- Wavelengths: 1310/1490 nm or 1310/1550 nm
- Test Tone Generation: 270, 1 KHz, 2 KHz
- Stability: ± 0.03 dB for insertion loss measurements

General

- Optional OLTS for bi-directional loss measurement (requires ORL option)
- Optional ORL meter for return loss measurements (requires APC Interface)
- Communication port: micro USB
- Connector or Adaptor types: FC/SC/ST/LC, Universal 1.25, Universal 2.5 mm
- Battery: AA alkaline or rechargeable NiMH with 5V micro-USB power adapter
- Battery operating time: approximately 80 hours (without backlight)



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Fiberizer™

Fiberizer Desktop and Fiberizer Cloud boost efficiency and productivity for several optical test applications. OPM and OLTS test results can easily be transferred from the device to a PC running Fiberizer Desktop PC software. Full off-line analysis and report management in a controlled office environment is possible while Fiberizer Cloud provides superior centralized test data management and reporting capabilities on line allowing you to work from almost anywhere, at any time.

Optical Specifications

Light Source		
Parameter	Singlemode	Multimode
Wavelength (nm)	1310/1490 or 1310/1550 ± 20 nm	850/1300 ± 20 nm
Output power (dBm)	> -5	
Power Stability (dB)	≤ ± 0.03 (15 min)	< ± 0.05 (15 min)
Modulation	CW, 270, 1 kHz, 2 kHz, WaveID	
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	
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)	± 2, 5 (± 0.11)	± 4 (± 0.17)
Display Resolution (dB)	0.01	
Optical Adaptors (Interchangeable)	ST/SC/FC/LC, Universal 2.5/1.25 mm	
Optical Return Loss (ORL)		
Wavelength (nm)	1310/1550 or 1310/1490	
ORL Range (APC) (dB)	-14 to -65 dB	
ORL Uncertainty (dB)	± 0.5 dB (-50 to -14 dB), ± 1 dB (-65 to -50 dB)	
Resolution (dB)	0.1	
Visual Fault Locator (VFL)		
Emitter Type	Laser	
Wavelength (nm)	650	
Output Power (mW)	1	
Modulation	CW, 1 Hz, 2 Hz	
Connector Type	Universal 2.5 mm	

General Specifications

Size:	129 x 61 x 38 mm (H x W x D)	PC connection:	Micro USB interface, data transfer via Fiberizer software
Weight:	< 310 g (< 0.7 lbs.) OPM configuration	Storage:	> 1000 single wavelength results
Construction:	Rugged, Polycarbonate chassis, 1 meter drop tested	Display:	High contrast, monochrome LCD with backlight
Battery:	Standard Alkaline AA Rechargeable NiMH, 2 AA cells in series, 2000 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



VeEX Inc.
2827 Lakeview Court
Fremont, CA 94538 USA
Tel: +1.510.651.0500
Fax: +1.510.651.0505
www.veexinc.com
customer@veexinc.com

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