

FX40 Series



Optical Power Meter (OPM) Optical Light Source (OLS)

Key Features

Platform

- Telecom, CATV and LAN/WAN applications
- Singlemode or Multimode configurations
- High contrast, backlit LCD - visible indoors and outdoors
- Handheld, lightweight rugged design
- Splash and dust resistant design
- Non-volatile memory for test result storage
- USB interface for tethering or test result transfer
- Alkaline battery or optional rechargeable NiMH battery with micro-USB, 5 Volt DC adaptor/charger
- Battery operating time: Approximately 100 hours (without backlight)

Software

- Windows PC software (LT-Sync) for transferring test results and generating basic pdf or Excel reports
- Fiberizer™ Desktop Plus and Fiberizer Cloud software for advanced analysis/post-processing and reporting
- Fiberizer Mobile for USB tethering (Android™ only)



Value added data post processing
Fiberizer Cloud
cloud.fiberizer.com



Key Specifications

Optical Power Meter (OPM)

- Calibrated wavelengths: 850, 1300, 1310, 1490, 1550, 1625, 1650 nm including 650 nm (uncalibrated, read only)
- Power Level Range:
 - PM1 version: -65 to +10 dBm
 - PM2 version: -50 to +25 dBm
- Accuracy^{1,2}: Up to ± 0.2 dB or 5%
- Modulation and Wave ID detection: Not supported

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 accurate loss measurement

General

- Test Results: 100 without time stamp
- Field interchangeable optical adaptors for OPM and OLS
- Adaptor types: FC/SC/ST/LC/E2000, Universal 1.25/2.5 mm
- Universal 2.5 mm sleeve allows for easy access/cleaning
- Communication port: Micro USB
- CE compliant

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	
Laser Safety	Class 1 per 60825-1:2014, edition 3	
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	
Spectral width (nm)	<5	<10
Optical Connector Types ⁴	Universal adaptors (FC, SC, ST, LC, E2000 and universal 1.25 and 2.5 mm)	
Optical Interface	UPC or APC (fixed connector only)	
Power Meter		
Calibration wavelengths (nm)	850/1300/1310/1490/1550/1625/1650	
Power range (dBm) options - Standard (PM1), InGaAs - High (PM2), InGaAs	-65 to +10 -50 to +25	
Power measurement accuracy, % (dB) ^{1,2}	±5 (±0.22) or ±10% (±0.45)	±8 (±0.36) or ±13 (±0.60)
Linearity, % (dB)	±2.5 (±0.11)	±4 (±0.17)
Display Resolution (dB)	0.01	
Optical Adaptors (Interchangeable) ⁴	Universal 2.5 mm standard; FC, SC, ST, LC, E2000 and Universal 1.25 mm available	
Visual Fault Locator (VFL)		
Emitter Type	Laser	
Wavelength (nm)	650	
Laser Safety	Class 2 per IEC 60825-1:2014, edition 3	
Output Power (mW)	1	
Modulation	CW, 1 Hz, 2 Hz	
Connector Type	Universal 2.5 mm sleeve	

- Notes**
1. PM1: SM ±5% at -50 to +10 dBm; ±10% -65 to -50 dBm; MM ±8% at -50 to +10, ±13% at -65 to -50 dBm. Applies only with OPM fitted with SC or FC adaptor.
 2. PM2: SM ±5% at -35 to +25 dBm; ±10% -50 to -35 dBm; MM ±8% at -35 to +25 dBm; ±13% -50 to -35 dBm. Applies only with OPM fitted with SC or FC adaptor.
 3. FX40 can be configured as an OPM + VFL. Refer to ordering guide.
 4. Conversion adaptor adds additional 0.3 dB insertion loss. Applies to converters FC-LC, FC-E2000 and FC-Universal 1.25 mm.

General Specifications			
Size:	129 x 61 x 38 mm (H x W x D)	PC connection:	Micro USB interface, OPM remote control and data transfer via LT-Sync PC software
Weight:	<310 g (<0.7 lbs.) OPM configuration	Storage:	>100 results without timestamp
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