

# FX40 Series

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



## Key Features

- Singlemode and Multimode testing
- PON, Telecom, CATV and LAN/WAN applications
- Dual wavelength laser source and power meter options
- High accuracy and wide dynamic range
- Save OPM measurements (> 100 single results)
- Transfer stored results to a PC via USB for report generation, printing and Fiberizer Cloud upload
- Reference power level setup and recall
- Splash resistant keypad and chassis design
- High contrast display - Visible outdoors and backlight for indoor or low light conditions
- Alkaline or Rechargeable battery option with Auto power off
- Field interchangeable optical adaptors support multiple connector types and allow easy access for cleaning

## Key Specifications

- Wavelength range: 800 nm to 1700 nm
- Calibrated wavelengths: 850, 1300, 1310, 1490, 1550, 1625 nm
- OPM Detector type: InGaAs 1 mm
- Power Measurement range:
  - 65 to +10 dBm (PM1)
  - 50 to +25 dBm (PM2)
- Accuracy: +0.2 dB or 5%
- Linearity: 0.1 dB
- Display resolution: 0.01 dB
- Communication port: micro USB
- Connector interface: FC/SC/ST/LC, Universal 1.25/2.5 mm adaptors Interchangeable
- Battery: Alkaline, Optional NiMH AA type
- Accepts standard 5V micro-USB power adaptor
- Battery operating time: 100 hours (without backlight)
- CE compliant
- Laser Safety Class: IEC 60825-2:2007
  - OLS: Class 1
  - VFL: Class 2M



Add value with  
**Fiberizer Cloud**  
[www.fiberizer.com](http://www.fiberizer.com)

## Fiberizer™ Cloud

Test results can be transferred easily from the unit to a PC via USB connection and uploaded to Fiberizer Cloud for subsequent analysis and report generation. This cloud-based solution provides superior centralized test data management capabilities and is a full online web service allowing you to work from almost anywhere, at any time.

### Optical Specifications

Light Source		
Parameter	Singlemode	Multimode
Wavelength (nm)	1310/1490/1550/ ± 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	
Optical Connector Types	Fixed connectors (FC, SC, LC)	
Optical Interface	UPC or APC (optional)	
Power Meter		
Calibration wavelengths (nm)	850/1300/1310/1490/1550/1625	
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)	± 12 (± 0,5) / ± 8 (± 0.33)
Linearity, % (dB)	± 2, 5 (± 0.11)	± 6 (± 0.25) / ± 4 (± 0.17)
Display Resolution (dB)	0.01	0.01
Optical Adaptors (Interchangeable)	ST/SC/FC/LC, Universal 2.5/1.25 mm	
Visual Fault Locator (VFL)		
Emitter Type	Laser	
Wavelength (nm)	650	
Output Power (mW)	1	
Modulation	CW, 1 Hz	
Connector Type	Universal 2.5 mm	

### General Specifications

Size: 129 x 61 x 38 mm (H x W x D)  
 Weight: < 310 g (< 0.7 lbs.) OPM configuration  
 Construction: Rugged, Polycarbonate chassis,  
 1 meter drop tested  
 Battery: Standard Alkaline AA  
 Optional Rechargeable NiMH,  
 2 AA cells in series, 2000 mAh  
 Optional Extended Rechargeable NiMH,  
 2 x AA cells in series, 3100 mAh

Power Supply: Micro USB interface, 5 VDC charger  
 PC connection: Micro USB interface, data transfer via  
 Windows Utility software  
 Storage: > 100 single wavelength results without  
 timestamp  
 Display: Monochrome LCD with backlight  
 Operating Temp: -10 °C to +50 °C  
 Storage Temp: -20 °C to +70 °C  
 Humidity: 0% to 95%, non-condensing



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