

FX40 Series

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



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)



Key Specifications

Optical Power Meter (OPM)

 Calibrated wavelengths: 850, 1300, 1310, 1490, 1550, 1625, 1650 nm including 650 nm (uncalibrated, read only)

FX40 C

- Power Level Range:
 - PM1 version: -65 to +7 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, 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

Optical Specifications

Light Source	
Singlemode	Multimode
1310/1490 or 1310/1550 ±20 nm	850/1300 ±20 nm
>-5	
Class 1 per 60825-1:2014, edition 3	
≤±0.03 (15 min), ≤±0.1 (8 hrs)	<±0.05 (15 min)
CW, 270, 1 kHz, 2 kHz	
<5	<10
Universal adaptors (FC, SC, ST, LC, E2000 and universal 1.25 and 2.5 mm)	
UPC or APC (fixed connector only)	
650/850/1300/1310/1490/1550/1625/1650	
-65 to +7 -50 to +25	
±5 (±0.22) or ±10% (±0.45)	±8 (±0.36) or ±13 (±0.60)
±2.5 (±0.11)	±4 (±0.17)
0.01	
Universal 2.5 mm standard; FC, SC, ST, LC, E2000 and Universal 1.25 mm available	
Laser	
650	
Class 2 per IEC 60825-1:2014, edition 3	
1	
CW, 1 Hz, 2 Hz	
Universal 2.5 mm sleeve	
	1310/1490 or 1310/1550 ±20 nm Class 1 per 60825 ≤±0.03 (15 min), ≤±0.1 (8 hrs) CW, 270, 1 <5 Universal adaptors (FC, SC, ST, LC, E2 UPC or APC (fixed 650/850/1300/1310/1 -65 t -50 tc ±5 (±0.22) or ±10% (±0.45) ±2.5 (±0.11) 0.0 Universal 2.5 mm standard; FC, SC, ST, LC Las 65 Class 2 per IEC 6082

Notes:

- 1. PM1: SM \pm 5% at -50 to +7 dBm; \pm 10% -65 to -50 dBm; MM \pm 8% at -50 to +7, \pm 13% at -65 to -50 dBm. Applies only with OPM fitted with SC or FC adaptor.
- 2. PM2: SM \pm 5% at -35 to +25 dBm; \pm 10% -50 to -35 dBm; MM \pm 8% at -35 to +25 dBm; \pm 13% -50 to -35 dBm. Applies only with OPM fitted with SC or FC adaptor.
- 3. FX40 can be configured as an OPM + VFL or as an OLS + 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)

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, 3100 mAh

Power Supply: Micro USB interface, 5 VDC charger

PC connection: Micro USB interface, OPM remote control

and data transfer via LT-Sync PC software

Storage: >100 results without timestamp

Display: >Monochrome LCD with backlight

Operating Temp: $-10 \,^{\circ}\text{C}$ to $+50 \,^{\circ}\text{C}$ Storage Temp: $-20 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$

Humidity: 0% to 95%, non-condensing



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