VeEX

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)

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 +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

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Optical Specifications

Light Source		
Parameter	**Singlemode**	**Multimode**
Wavelength (nm)	1310/1490 or 1310/1550 ±20 nm	850/1300 ±20 nm
Output power (dBm)	>-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, 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)	650/850/1300/1310/1490/1550/1625/1650	
Power range (dBm) options - Standard (PM1), InGaAs - High (PM2), InGaAs	-65 to +7 -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 +7 dBm; ±10% -65 to -50 dBm; MM ±8% at -50 to +7, ±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 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 °C to +50 °C
Storage Temp: -20 °C to +70 °C
Humidity: 0% to 95%, non-condensing