

FX40 Series

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



Key Features

- Singlemode and Multimode testing
- Built-in universal 2.5 mm tip sleeve
- 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 or upload results to Fiberizer Cloud via micro USB interface for report generation and printing
- 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
- Field interchangeable optical adaptors support multiple connector types and allow easy access for cleaning

Key Specifications

Optical Power Meter (OPM)

- Calibrated wavelengths: 650, 850, 1300, 1310, 1490, 1550, 1625, 1650 nm
- 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
- Laser Source: FP-Laser
- Test Tone Generation: 270, 1 KHz, 2 KHz
- Stability: ± 0.03 dB for insertion loss measurements

General

- Results saving: 100 without timestamp
- OPM Remote control data transfer using LT-Sync PC software
- Communication port: micro USB
- OLS/OPM adaptor types: FC/SC/ST/LC/E2000, Universal 1.25 mm, Universal 2.5 mm
- Battery: Alkaline (AA) or Optional NiMH with 5V micro-USB power adaptor
- Battery operating time: approximately 100 hours (without backlight)
- CE compliance as per IEC 61326



Add value with
Fiberizer Cloud
www.fiberizer.com

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	
Laser Safety	60825-1:2001, Class 1	
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)	<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	60825-1:2001, Class 2	
Output Power (mW)	1	
Modulation	CW, 1 Hz, 2 Hz	
Connector Type	Universal 2.5 mm sleeve	

Notes:

- 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.
- 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.
- FX40 can be configured with up to two test applications. Refer to ordering guide.
- 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 single wavelength results without timestamp
Construction:	Rugged, Polycarbonate chassis, 1 meter drop tested	Display:	Monochrome LCD with backlight
Battery:	Standard Alkaline AA Optional Rechargeable NiMH, 2 AA cells in series, 3100 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

© 2018 VeEX Inc. All rights reserved.
VeEX is a registered trademark of VeEX Inc. The information contained in this document is accurate. However, we reserve the right to change any contents at any time without notice. We accept no responsibility for any errors or omissions. In case of discrepancy, the web version takes precedence over any printed literature.
D05-00-109P E00 2018/05