

Optical Power Meter (OPM) Optical Light Source (OLS) FX45

- Singlemode and Multimode testing
- PON, Telecom, CATV and LAN/WAN applications
- Dual wavelength laser source and power meter
- OPM, OLS, OLTS configurations
- High accuracy and wide dynamic range
- Save OPM measurements (> 1000 single results) with timestamp
- Transfer stored results to a PC via USB for report generation, printing and Fiberizer Cloud upload
- Reference power level setup and recall
- Frequency detection for fiber identification
- Wave ID automatically detects incoming wavelength from compatible VeEX light source
- Splash resistant keypad and chassis design
- High contrast display - Visible outdoors and backlight for indoor or low light conditions
- Alkaline or Rechargeable batteries with Auto power off
- Field interchangeable OPM adapters support multiple connector types and allow easy access for cleaning

Optical Power Meter (OPM)

- Calibrated wavelengths (FX45): 850, 1300, 1310, 1490, 1550, 1625, 1650 nm
- Calibrated wavelengths (FX48): 830, 850, 940, 980, 1300, 1310, 1330, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625 & 1650 nm
- Detector type: InGaAs
- Level measurement range:
 - PM1 version: -65 to +10 dBm
 - PM2 version: -50 to +25 dBm
 - PM3 version: -65 to +15 dBm
- Accuracy: +0.2 dB or 5%
- Wave ID detection (compatible VeEX source): 1310, 1490, 1550, 1625, & 1650 nm



Optical Light Source (OLS)

- Wavelengths: 1310/1490 nm or 1310/1550 nm or 850/1300 nm
- Test Tone Generation: 270, 1 KHz, 2 KHz
- Stability: ± 0.03 dB for insertion loss measurements
- Laser Safety: Class 1

General

- Communication port: micro USB
- Connector or Adaptor types: FC/SC/ST/LC, Universal 1.25, Universal 2.5 mm
- CE compliance as per IEC 61326
- Battery operating time: approximately 80 hours (without backlight)

Ordering Information:

Description: Optical Power Meter (OPM) Optical Light Source (OLS) FX45

Please contact atg for more detail and delivery times

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Optical Specifications

PARAMETER	SPECIFICATION
Dimension (H x W x D)	129 x 61 x 38mm
Weight	< 310 g (< 0.7 lbs.) OPM configuration
Construction	Rugged, Polycarbonate chassis, 1 metre drop tested
Power Supply	Micro USB Interface, 5 VDC Charger
Battery	2x Alkaline AA batteries or Rechargeable NiMH, 2150 mAh
Connectivity	Micro USB interface, data transfer via Fiberizer mobile and LT-Sync software applications
Storage	>1000 single wavelength results
Display	High contrast, 28 x 23mm (35mm), B&W transreflective LCD, 96 x 80 pixels with backlight
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-20 °C to +70 °C
Humidity	0% to 95%, non-condensing

Light Source		
Parameter	Singlemode	Multimode
Wavelength (nm)	1310/1490 or 1310/1550 ± 20 nm	850/1300 ± 20 nm
Output power (dBm)	> -5	
Power Stability (dB)	≤ ± 0.03 (15 min), ≤ ± 0.1 (8 hrs)	< ± 0.05 (15 min)
Modulation	CW, 270, 1 kHz, 2 kHz, WaveID	
Spectral width (nm)	< 10	
Optical Connector Types	Fixed or Universal adaptors (FC, SC, LC)	
Optical Interface	UPC or APC (optional)	
Power Meter		
Calibration wavelengths (nm)	850/1300/1310/1490/1550/1625/1650	
Wavelength Range (nm)	800-1700	
Power range (dBm) options		
- Standard (PM1), InGaAS (1 mm)	-65 to +10	
- High (PM2), InGaAS (1 mm)	-50 to +25	
Power measurement accuracy, % (dB)	± 5 (± 0.22)	± 8 (± 0.33)
Linearity, % (dB)	± 2, 5 (± 0.11)	± 4 (± 0.17)
Display Resolution (dB)	0.01	
Optical Adaptors (Interchangeable)	ST/SC/FC/LC, Universal 2.5/1.25 mm	