

**NEW**



### NOYES® FiberTech FT-PM3 and FT-PM4 Optical Power Meters

The NOYES FiberTech FT-PM3 and FT-PM4 are basic Optical Power Meters designed for use in performing insertion loss measurements in single-mode and multimode optical networks. The FT-PM3 is a general-purpose meter with an input range of +6 dBm to -50 dBm and is calibrated at 850, 1300, 1310, 1490, 1550 and 1625 nm. The FT-PM4 is a high power meter with an input range of +26 dBm to 30 dBm. The FT-PM4 is calibrated at 850, 980, 1310, 1490, 1550 and 1625 nm. All models can detect CW and 270, 330, 1000 or 2000 Hz tones. FT-PM3 and FT-PM4 Optical Power Meters are factory equipped with an integral 2.5 mm universal adapter and an FC thread-on adapter. Additional FC, SC and ST connector adapters are available.

FiberTech Optical Power Meters are designed for ease of use. Each is equipped with a large, easy-to-read LCD, which shows the input power level, the remaining battery capacity, and the status of the automatic power-off function. A user-selectable backlight enables the FT-PM3 and FT-PM4 to be used in dimly-lit spaces.

FiberTech Optical Power Meters will operate for approximately 300 hours from a pair of ordinary AA alkaline batteries. An automatic power-down circuit optimizes battery life by shutting off after 5 minutes of operation.

When paired with a NOYES Optical Light Source (such as the FiberTech FT-LS20, Contractor CSS1-SM or CSS1-MM, OLS1, OLS2, OLS4 or OLS7), FiberTech Optical Power Meters provide installers, technicians, and field engineers with accurate, stable measurements of optical power levels and insertion loss characteristics. In addition, the tone detection capabilities also support optical fiber identification tasks when used with an appropriate light source. The FT-PM3 and FT-PM4 are fully N.I.S.T. traceable and comply with CE and ROHS requirements.

#### Features

- Palm-sized, rugged, lightweight
- Large LCD with backlight
- Power measurements in dBm or  $\mu$ W
- Insertion loss measurements in dB
- 270, 330, 1000, 2000 Hz tone detection
- Long battery life with 2 x AA alkaline
- Battery gauge and automatic power-off function
- N.I.S.T traceable, CE and RoHS compliant

#### Applications

- Single-mode and multimode optical networks
- Telco, broadband and enterprise networks
- Optical insertion loss measurements
- Optical fiber identification tasks

## NOYES® FiberTech Optical Power Meters

### Specifications <sup>a</sup>

OPTICAL	FT-PM3	FT-PM4
Calibrated Wavelengths <sup>b</sup>	850, 1300, 1310, 1490, 1550 1625 nm	850, 980, 1310, 1490, 1550, 1625 nm
Detector Type	InGaAs	Hi Power InGaAs
Measurement Range	+6 to -70 dBm	+26 to -50 dBm
Tone Detect Range	+6 to -50 dBm +6 to -45 dBm for 850 nm	+26 to -30 dBm +26 to -25 dBm for 850 nm
Accuracy <sup>c d</sup>	±0.5 % (±0.2 dB)	
Resolution	0.01 dB	
Measurement units	dB, dBm, μW	
Tones Detected	270, 330, 1000, 2000 Hz	
<b>GENERAL</b>		
Connector Interface	Threaded adapter base mount with integrated 2.5 mm Universal accepts FC, SC, and ST threaded connector adapters	
Power	2 x AA batteries	
Battery Life	>300 hours	
Operating Temperature	-10 °C to +50 °C, 90 % RH (non-condensing)	
Storage Temperature	-30 °C to 60 °C, 90 % RH (non-condensing)	
Size	114 x 64 x 32 mm (4.5 x 2.5 x 1.3 in)	
Weight	180 g (0.4 lb)	

#### Notes:

- All specifications valid at 25 °C unless otherwise specified.
- Setup for wavelength calibrations:
  - MM calibration (850 and 1300 nm) with 50 micron fiber
  - SM calibration with 9/125 single-mode fiber
- Accuracy measured at 25 °C and -10 dBm per N.I.S.T standards.
- Typical.

### Ordering Information

DESCRIPTION	AFL NO.
Includes FT-PM3 with FC adapter, 2 x AA alkaline batteries, carry case and user's guide	FT-PM3-FC
Includes FT-PM4 with FC adapter, 2 x AA alkaline batteries, carry case and user's guide	FT-PM4-FC
2900-FT-PM-FCMR	FC Connector
2900-FT-PM-SCMR	SC Connector
2900-FT-PM-STMR	ST Connector

AFL recommends annual calibrations on NOYES Test and Inspection products. Prepaid Cal plans offer two annual calibrations at a discounted price, a convenient calibration expiration email service, express calibration services and access to the NOYES product knowledge base. Cal Plus plans offer the same services as the Cal plans with the addition of a two year extended warranty (three years total coverage).

### Calibration Plans

MODEL	2 YR CAL PLAN	2 YR CAL PLUS PLAN
	AFL NO.	AFL NO.
FT-PM3-FC	CAL2-00-FT-PM3	CAL2-01-FT-PM3
FT-PM4-FC	CAL2-00-FT-PM4	CAL2-01-FT-PM4



### NOYES International Sales and Service Contact Information

Available at [www.AFLglobal.com/NOYES/Contacts](http://www.AFLglobal.com/NOYES/Contacts)