

FM Series Fiber Meters

optical power meters

Description

The FM Series Fiber Meters are hand-held, compact, lightweight, and easy-to-use battery powered optical power meters. Together with any of Wilcom's Fiber Sources, this team makes a perfect combination for accurately testing multimode and singlemode optical fiber systems

Models FM8515B/C, FM8520, and FM1317 offer measurements in dBm, dBr, and micro-watts (milli-watts for FM8515C). The FM8510 offers measurements in dBm only. The optical input port on the FM power meters accept any Wilcom thread-on style adapter caps. Adapter caps are required for operation and must be ordered separately.

Models FM8510, FM8515B, and FM8520 measure optical power from + 5 dBm to -70 dBm with calibrated wavelengths of 850, 1310, and 1550nm making these units ideal for general singlemode and multimode fiber optic testing.

Model FM8515C (High Power) measures optical power from +23 dBm to -50 dBm with calibrated wavelengths of 850, 1310 and 1550nm making this unit ideal for measurements on CATV systems, optical amplifiers, and other high power devices.


Model FM1317 measures power from +5 dBm to -70 dBm with calibrated wavelengths of 850, 980, 1310, 1480, 1550 and 1625nm making this unit ideal for singlemode, multimode and WDM fiber optic testing. Additionally, 2 kHz signal detection is performed by the unit for easy fiber identification.



Features and Benefits

- **Multiple Wavelengths**
Time and cost savings with one power meter for multiple wavelengths.
- **+5 dBm to -70 dBm Dynamic Range**
A wide dynamic range that covers a variety of multimode and singlemode applications.
- **Singlemode and Multimode Applications**
One test set for all your power and link loss testing.
- **Hand-Held, Battery Operated for Field Use**
Don't get stuck away from the truck with a dead meter; your batteries last longer, and our low battery indicator is an early warning system that gives you plenty of time.
- **Low Power Consumption**
Each unit uses two commonly available AA Alkaline batteries to provide power for greater than 100hrs of continuous use.
- **Two Way Power**
Each unit offers the convenience of two-way power. They can operate by using either AA Alkaline batteries, or optional rechargeable NiCad batteries.
- **Single Key Operation**
Ease of operation is provided for by single key entry for wavelength selection , and optical power measurements.

Specifications

MODEL	FM8510	FM8515B	FM8520	FM8515C	FM1317
Detector Type	InGaAs			Filtered InGaAs	InGaAs
Power Range	+5 dBm to -70 dBm			+23dBm to -50dBm @1310/1550nm +23dBm to -20dBm @850nm	+5 dBm to -70 dBm
Wavelength	850, 1300, 1550 nm				850, 980, 1310, 1480, 1550, 1625nm
Accuracy	+/- .25dB (measured at 23°C, 1310nm @ -20dBm)				
Resolution	0.01 dB				
Display	4 digit LCD				
Function	dBm (absolute power) dBm (absolute power), dB _r (relative power), λ (wavelength), μW (absolute power in microwatts), mW (absolute power in milli-watts - FM8515C only)				
Low Battery	Visual Indicator				
Signal Over Range	Visual Indicator				
2 kHz Detection	N/A	N/A	Visual Indicator	N/A	Visual Indicator
Reference Store	N/A	dB reference stored in EEPROM			
Auto Shut Off	Unit powers down five minutes after last key has been depressed				
Serial Output	N/A	N/A	RS-232	N/A	N/A
Loss Reading Storage	N/A	N/A	250 Measurements per wavelength	N/A	N/A
Power	Two (2) AA Alkaline Batteries / (>100 hours continuous use)				
Operating Temp.	-10 to + 40°C				
Storage Temp.	-20 to + 60°C				
Size / Weight	6.3"H x 3.3"W x 1.3"D (160 x 83 x 33mm) / 0.49lbs (220g)				
Accessories	All models include a padded carrying case with window allowing convenient use of the unit while in the case, instruction manual, and batteries.				
					

Ordering Information

<u>Model No.</u>	<u>Part No.</u>
FM8510 - w/o Charger	30851001
FM8515B - w/o Charger	30851511
FM8515C - w/o Charger	30851514
FM8520 - w/o Charger (Printer/PC Interface Cable included)	30852001-02
FM1317 - w/o Charger	30131705
<u>Optional</u> NICAD Battery Charger Kit (110VAC only - batteries included)	30032241-01

Warranty

The Wilcom Series of Fiber Meters are warranted for a period of one year to be free of defects in material and workmanship.

Optional Adapter Caps for FM8510, FM8515B, FM1317 & FM8520:

ST™ Adapter Cap	04419812
SMA Adapter Cap	04419809
FC Adapter Cap	04419857
SC Adapter Cap	04419716
Biconic Adapter Cap	30031983
LC Adapter Cap	30032070
Universal Port Adapter Cap (accepts any 2.5mm ferrule)	30031992

Optional Adapter Caps for FM8515C only:

ST™ Adapter Cap	30030792-01-1
FC Adapter Cap	30030191-01-2
SC Adapter Cap	30031752-01-4
LC Adapter Cap	30032052-01-5
D4 Adapter Cap	30030118-01-3
Biconic Adapter Cap	30030134-01-1

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Specifications and prices are subject to change without notice.
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