

Introduction:

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

Models FD-FM8515-B/C, and FD-FM8520 offer measurements in dBm, dBr, and micro watts (milli-watts for FD-FM8515-C).

Models FD-FM8515-B and FD-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 FD-FM8515-C (High Power) measures optical power from +23 dBm to -50 dBm with calibrated wavelengths of 850, 1310, and 1550nm making these units ideal for measurements on CATV systems, optical amplifiers, and other high power devices.



Features:

- Multiple Wavelengths
- Low Power Consumption
- Time and cost savings: one meter - multiple wavelengths.
- Single Key Operation
- Wide dynamic range
- Multimode and singlemode applications.
- Two Way Power - AA Alkaline batteries, or optional rechargeable NiCad batteries
- Two AA Alkaline batteries provide 100 hours of use.

Specifications:

Model	FD-FM8515B	FD-FM8520	FD-FM8515C
Detector Type	InGaAs		Filtered InGaAs
Power Range	+5 dBm to -70 dBm		+23 dBm to -50 dBm @ 1310/1550 nm +23 dBm to -20 dBm @ 850nm
Wavelength	850, 1310, 1550 nm		
Accuracy	+/- 0.25 dB (measured at 23°C, 1310nm @ -20dB)		
Resolution	0.01 dB		
Display	4 digit LCD		
Function	dBm (absolute power), dBr (relative power), λ (wavelength) μW (absolute power in microwatts), mW (absolute power in mini-watts – FD-FM8515C only)		
Low Battery	Flashing Visual Indicator		
Signal Over Range	Flashing Visual Indicator		
2 kHz Detection	N/A	Visual Indicator	N/A
Reference Store	dB reference stored in EEPROM		
Auto Shut Off	Unit powers down in five minutes after last key has been depressed		
Serial Output	N/A	RS-232	N/A
Loss Reading Storage	N/A	250 Measurements per wavelength	N/A
Power	Two (2) AA Alkaline or NiCad (optional) / (> 100 hours continuous use)		
Operating Temperature	-10 to +40°C		
Storage Temperature	-20 to +60°C		
Size	6.3"H x 3.3"W x 1.3"D (160 x 83 x 33 mm)		
Weight	0.49 lbs (220g)		
Accessories	All models except FD-FM8520 include a padded carrying case with window allowing convenient use of the unit while in the case, instruction manual, and batteries.		

Fiberdyne Labs Model FD-FM8515B Optical Power Meter
850nm, 1310nm, 1550nm, InGaAs, Reference Store, dBm, dBr, μ W

Item No.	Connector	Charger
FD-FM30851511	See Note Below	No

Note: [An adapter cap is required. They are listed and purchased separately.](#)

Fiberdyne Labs Model FD-FM8515C Optical High Power Fiber Meter
850nm, 1310nm, 1550nm, InGaAs, Reference Store, dBm, dBr, mW

Item No.	Connector	Charger
FD-FM30851514	See Note Below	No

Note: [An adapter cap is required. They are listed and purchased separately.](#)

Fiberdyne Labs Model FD-FM8520 Optical Power Meter
Computer/Printer Interface, Reference Store, dBm, dBr, μ W
850nm, 1310nm, 1550nm, InGaAs

Item No.	Connector	Charger
FD-FM30852001	See Note Below	No

Note: [An adapter cap is required. They are listed and purchased separately.](#)

Item No.	Description
FD-FC30032241-01	NICAD Battery Charger Kit for Power Meters and Light Sources