

# FMM-20

## Optical Multi-Meter



The FMM-20 is a new member to the FibreOptica fiber multi-meter (FMM) family. The new design cuts the size to 1/3 and weight less than half of FMM-10. It consolidates a power meter with 2 wavelengths of laser sources. It can automatically recognize the wavelength in use. The palm-size tool is an idea tool for fiber networks installation, troubleshooting and maintenance. The large capacity of data storage, USB interface and PC software make it very convenient for field and laboratory testing.

## Technical Specifications

### Power Meter

Model	FMM-20A	FMM-20B
Calibration wavelength (nm)	850/1300/1310/1490/1550/1625	
Connector	Interchangeable FC, SC and ST	
Data storage (results)	999	
Reference Value	Yes	
Display Units	dB/dBm/mW/μW	
Display Resolution (dB)	0.01	
Linearity	≤ 5% ± 1nW	
Wavelength Range (nm)	800 ~ 1700	
Wavelength Recognizing (nm)	1310/1550 (input power ≥ -40dBm)	
Tone Detection	270Hz / 1KHz / 2KHz (input power ≥ -40dBm)	
Power Range (dBm)	-70 ~ +10	-50 ~ +26

### Laser Sources

Output wavelength (nm)	1310/1550
Connector	Interchangeable FC, SC and ST
Modulation Frequencies	270/1K/2K Hz
Output Power	-5dBm ± 0.5dB
Stability Long-Term (8h)	± 0.1dB @1310/1550nm
Stability Short-Term (15min)	± 0.05dB @1310/1550nm
Wavelength Recognizing Code	Yes

Note: Specifications subject to change without notice

### General Specifications

Auto Power off	Yes
Power Supply	2 pcs Ni-MH 1.2V, 2000mAh and AC Adaptor
PC interface	USB
Battery Life	> 100 Hours (laser off)
Storage Temperature	-20 ~ +70°C
Operating Temperature	-10 ~ +50°C
Relative Humidity	< 90% (Non-condensing)
Dimension (mm)	168L×76W×43H
Weight	310g

## Key Features

- Automatically recognizes operating wavelength
- Built-in optical power meter
- Automatically stores up to 999 test results
- Enables data transfer to a PC via built-in USB interface
- Supports loop-back and bi-direction fiber testing
- Two wavelengths (1310nm and 1550nm) are ready for fiber networks.
- Auto test
- Auto power shut off
- Rechargeable batteries with battery indicator
- PC software provides complete report.

## Standard Package

- FC, SC and ST connectors
- Rechargeable Battery
- AC/DC Adapter
- Operating Manual
- Soft carrying case
- Silicon boot

## Related Products

FMM-30A  
FMM-30B

## Ordering Information

FMM-20X  
X – Model type (A or B)

## Options

Part Number	Descriptions
MFA-FCLC	FC (Male) to LC (Female) Adapter
MFA-SCLC	SC (Male) to LC (Female) Adapter
MFA-STLC	ST (Male) to LC (Female) Adapter
Other types of connectors	Upon request
Hard-case	Aluminum carrying case