

# FMM-30

## Optical Multi-Meter



The FMM-30 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 3 wavelengths of laser sources. It can automatically recognize the wavelength in use. It is perfect for testing PONs (Passive Optical Networks) with its built-in wavelength of 1310/1490/1550 nm commonly used in FTTx and complies with ITU-T G.983 and G.984 recommendation and IEEE 802.3ah standard. Hence, the palm-size tool is an idea tool for FTTx 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-30A                                    | FMM-30B   |
|-----------------------------|--|-----------|
| 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) | 1310/1490/1550 (input power ≥ -40dBm)      |           |
| Tone Detection              | 270Hz / 1KHz / 2KHz (input power ≥ -40dBm) |           |
| Power Range (dBm)           | -70 ~ +10                                  | -50 ~ +26 |

#### Laser Sources

|                              |  |
|------------------------------|--|
| Output wavelength (nm)       | 1310/1490/1550                         |
| 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; ± 0.2dB @1490nm  |
| Stability Short-Term (15min) | ± 0.05dB @1310/1550nm; ± 0.1dB @1490nm |
| 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                                     |

### 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                     |

### 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, 1490nm 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-20A  
FMM-20B

### Ordering Information

FMM-30X  
X – Model type (A or B)