

### FHM2 Series Optical Multimeter

#### Description

FHM2 series optical multimeter integrates a stable laser source and a precise optical power meter.

The laser source launches the laser whose wavelengths are 1310/1490/1550nm or 1310/1550nm (according to different models). The optical power meter can recognize the wavelength automatically. With the assorted software, user can generate a report or manage the test report easily.

#### Features

- Three output wavelength at one output interface
- Both continuous wave and modulated wave are available, the frequency of modulated signal is 270Hz, 1kHz, 2kHz
- Back light display
- Integrated with charging circuit
- Data storage up to 999 test results
- USB interface for connecting PC with assorted software
- Automatic shutdown in low power status



#### Specification



| Part Number | Description   |
|-------------|---|
| FHM2A01     | Dual wavelength optical multimeter, calibration wavelength: 850/1300/1310/1490/1550/1625nm, launch wavelength: 1310/1550nm, measure range:-70 to +10dBm |



| Part Number | Description  |
|-------------|--|
| FHM2B01     | Dual wavelength optical multimeter, calibration wavelength: 850/1300/1310/1490/1550/1625nm, launch wavelength:1310/1550nm, measure range:-50 to +26dBm |

#### FHM2x01 dual wavelength multimeter

|                                | FHM2A01                               | FHM2B01    |
|--------------------------------|---------------------------------------|------------|
| <b>Power meter parameters</b>  |                                       |            |
| Calibration wavelength(nm)     | 850/1300/1310/1490/1550/1625          |            |
| Connector                      | interchangeable FC/SC (ST optional)   |            |
| Data storage(items)            | 999                                   |            |
| Ref.Value                      | Yes                                   |            |
| Display Units                  | dB/dBm/mW/uW                          |            |
| Display precision(dB)          | 0.01                                  |            |
| Accuracy                       | ±5%±1nW                               |            |
| Wavelength Recognition         | 1310/1550/(input power≥-40dBm)        |            |
| Tone Detection                 | 270Hz/1KHz/2KHz(input power≥-40dBm)   |            |
| Measuring Range(dBm)           | -70 to +10                            | -50 to +26 |
| <b>Laser source parameters</b> |                                       |            |
| Output Wavelength(nm)          | 1310/1550                             |            |
| Connector                      | fixed FC/PC                           |            |
| Modulation Frequency           | 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                                   |            |
| Auto Power off                 | √                                     |            |
| <b>General parameters</b>      |                                       |            |
| Power Supply                   | 2pcs *NiHM 1.2V,2000mAh;AC/DC Adaptor |            |
| PC Interface                   | USB                                   |            |
| Battery Life                   | >100Hours(laser off)                  |            |
| Storage Temperature            | -20°C~+70°C                           |            |
| Operating Temperature          | -10°C~+50°C                           |            |
| Relative Humidity              | <90%(Non-condensing)                  |            |
| Dimension(mm)                  | 168L×76W×45H                          |            |
| Weight(g)                      | 260                                   |            |

#### Standard Accessories

FC adapter, SC adapter, 2\*rechargeable batteries, AC/DC adapter, USB cable, carrying bag, CD disk, user manual, test report

#### Optional Accessories

ST adapter (model: N000500)

## Specification

### FHM2x02 multimeter

|                                | FHM2A02                               | FHM2B02    |
|--------------------------------|---------------------------------------|------------|
| <b>Power meter parameters</b>  |                                       |            |
| Calibration Wavelength(nm)     | 850/1300/1310/1490/1550/1625          |            |
| Connector                      | interchangeable FC/SC (ST optional)   |            |
| Data Storage (items)           | 999                                   |            |
| Ref.Value                      | Yes                                   |            |
| Display Units                  | dB/dBm/mW/uW                          |            |
| Display Precision(dB)          | 0.01                                  |            |
| Accuracy                       | ±5%±1nW                               |            |
| Wavelength Recognition         | 1310/1490/1550(input power≥-40dBm)    |            |
| Tone Detection                 | 270Hz/1KHz/2KHz(input power≥-40dBm)   |            |
| Measuring Range(dBm)           | -70 to +10                            | -50 to +26 |
| <b>Laser source parameters</b> |                                       |            |
| Output Wavelength(nm)          | 1310/1490/1550                        |            |
| Connector                      | FC/PC, SC/PC                          |            |
| Modulation Frequency           | 270/1K/2K Hz                          |            |
| Output Power                   | 0dBm±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                                   |            |
| Auto Power off                 | √                                     |            |
| <b>General parameters</b>      |                                       |            |
| Power Supply                   | 2pcs *NiHM 1.2V,2000mAh;AC/DC Adaptor |            |
| PC interface                   | USB                                   |            |
| Battery Life                   | >100Hours(laser off)                  |            |
| Storage Temperature            | -20°C~+70°C                           |            |
| Operating Temperature          | -10°C~+50°C                           |            |
| Relative Humidity              | <90%(Non-condensing)                  |            |
| Dimension(mm)                  | 168L×76W×45H                          |            |
| Weight(Gram)                   | 260                                   |            |

### Standard Accessories

FC adapter, SC adapter, 2\*rechargeable batteries, AC/DC adapter, 3\*ceramic sleeves, USB cable, carrying bag, CD disk, user manual, test report

### Optional Accessories

ST adapter (model: N000500), 1.25mm PD adapter, 2.5mm PD adapter

### Customization

APC



#### Part Number Description

**FHM2A02** Triple wavelength optical multimeter, detect wavelength: .850/1300/1310/1490/1550/1625nm, launch wavelength: 1310/1490/1550nm, measure range: -70 to +10dBm



#### Part Number Description

**FHM2B02** Triple wavelength optical multimeter, detect wavelength: .850/1300/1310/1490/1550/1625nm, launch wavelength: 1310/1490/1550nm, measure range: -50 to +26dBm