

POWER METER



Overview

Optical power meter to meet the high demand. It intergrades the handheld optical power meter and the intelligent optical power meter in one unit. It can be used for the absolute power measurement and relative measurement of the link loss in dB. Its compact size, friendly operation interface, broad power measurement range, high precision and brand-new user automatic calibration function and high performance in application makes it an ideal tool for optical fiber network.

1. Specifications

Type	FOPM002	
Wavelength Range (nm) '''	800~1700	
Detector Type	InGaAs	
Measurement Range (dBm) *2	-70~+6	-50~+26
Uncertainty *3	+0.15dB	
Calibrated Wavelength(nm)	850, 1300, 1310, 1490, 1550, 1625	
Accuracy	Linear 0.1% or Nonlinear 0.01dBm	
Connector	FC/UPC or FC/SC Interchangeable	
Operating Temperature (°C)	-10~+60	
Storage Temperature (°C)	-25~+70	
Auto-off Time (min)	10	
Operating Time (h)	≥200.	
Battery	3 AA1.5V	
Weight (g)	285	
Dimensions (mm)	200X90X50	

Notes:

1. Wavelength Range: Specified standard operating wavelength range in which the Power Meter can work properly under certain technical specifications.
2. Power Measurement Range: The maximum and minimum range in which the Power Meter can work properly.
3. Uncertainty: Difference between two measurement results that were tested by Power Meter and another Standard Power Meter respectively

2. Standard packages

- Handheld Power Meter
- Manual
- Protective Holster
- Cotton Swabs
- Adapter



3. User Manual

3-1. Components Guide

(1) LCD:

The LCD screen displays the measurement tested in dB, dBm, mW, uW, nW unit; the selected wavelength; the current operating situation and so on.

(2) Key:

Press the key to turn the unit on/off.

(3) key:

To test the power value under certain wavelength.


(4) Key:

Press this key for a few seconds to store the current power value as the reference value which will be displayed on the top left of the LCD screen

(5) "λ" Key:

To switch the current operating wavelength between 850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm.

3-2. Operation and Notes

1)  Press the  key for a few seconds to turn on or off the unit

2) Absolute power measurement

(1) Turn on the Power Meter


(2) Press the 1 key to switch between the wavelengths. The default wavelength is 1310nm.

(3) Connect the light to be measured, and then reading will be displayed on the LCD screen, including Linear and nonlinear value.

3) Relative power measurement.


(1) Select the wavelength to be measured.

(2) Under "Absolute power measurement mode", connect to the light to be tested.

(3) Press  key, then current power value is stored as a reference value in dB unit. At the same time it also displays the current absolute power value and current relative value is 0dB.

(4) Connect to another beam of light to be tested, display the current relative power value and absolute power value under tested..

3-3. Auto-off

Press  key to turn on the auto-off function. The auto-off symbol will be displayed on the left. The unit will be turned off automatically after 10 minutes idle time.

3-4. Maintenance

- 1) It is important to keep all optical connectors and surfaces free from oil, dirt or other contamination to ensure proper operation.
- 2) Keep using one type of adapter to avoid excess loss from different connectors.
- 3) Please use dust proof cap for protection to avoid being scratched or contaminated when Handheld Power Meter not in operation.
- 4) Light interface is sensitive, please carefully plug in and pull out the connectors.
- 5) Please use clean cotton to clean the sensor surface, clean it in clockwise direction carefully.
- 6) If does not need to use for a long time, please take out the battery.

3-5. Change battery

If you find battery is weak while operating it, please immediately turn the unit off and change a new battery.