

USER MANUAL



Optical power mete



LED lighting



Rechargeable Battery

Overview

Handheld optical power meter series products are mainly used for the measurement of continuous optical signal power. It is controlled by a single chip microprocessor, full functioning. Widely used in optical fiber construction and maintenance, Optical Fiber Communication, Fiber optic sensing, Optical CAT and other fields, The machine uses a hidden detector, which can make it well protected. This machine has a compact appearance, Automatic shutdown function, Wavelength memory function, Manual calibration possible, Fiber Job Identification, Wide test range.

Product Features

1. Support lighting
2. Support auto power off
3. Backlight switch is supported
4. Support memory wavelength function
5. Support working frequency identification
6. Support user's own calibration
7. Support SC, FC, ST interface
8. Support power bank, External power supply such as computer
9. Supporting linear (nW) and nonlinearty index (dB) displayed at the same time
10. Support ultra long endurance

Press Key Description

Button	Function Description
	1.Short press to start,Turn on the backlight (automatically turn off the backlight after 15 seconds).
	2.Short press this key after power on, Turn on → turn off the 10-minute automatic shutdown function (⏻ Icon display → off).
	3.Press and hold for 2 seconds to shut down.
	1.Short press wavelength to switch, Cyclic switching of multiple wavelengths, successively 850nm、980nm、1270nm、1300nm、1310nm、1490nm、1550nm、1577nm、1625nm,Automatically save the wavelength used in the last test when shutting down.
	2.Long press for 2 seconds is the data storage function,The display screen shows "Ee01", Successfully stored data,Repeat this operation to store data to "EE20".The storage content is the measured wavelength (nm),Optical attenuation coefficient (dbm) and optical power (mw. uw. nw).The machine is automatically overwriting cyclic storage.

Button	Function Description
UNIT	Power meter unit (nw, db) switching.
REF	At this time, the measured light attenuation db value returns to zero.
LED	Short press to turn on → turn off the backlight. (“✳” Icon display → off, automatically turn off the backlight after 3 minutes) .
	Long press for 2 seconds, Turn on → turn off LED lights.
+ UNIT + REF	User Calibration Mode Press and hold the key combination at the same time, The third row of the display screen shows "CAL", Enter user calibration mode: "UNIT"+0.05dBm, "REF"-0.05dBm. ① Short press the "Power" button after user calibration, Save and Exit User Calibration Mode. ② Press "UNIT+REF" at the same time, The third row of the display screen shows "FAC", Enter factory reset mode, Short press the "Power" button, Confirm to restore the factory settings and exit.

Button	Function Description
λ + REF	View stored data Short press the combination key "λ" + "REF" and the wavelength unit "nm" on the display screen disappears, Enter the page to view the stored data, "UNIT" key up, "REF" key turns down, Press the combination key again to exit the page, "nm" recovery display.
REF + LED	Clear stored data Press the combination keys "REF" + "LED", When the display screen displays "EEOO", you will enter the page of clearing stored data, There are two options: A.Press the key combination again, That is, exit directly without clearing the stored data. B.Short press the "Power" button,Clear all stored data and exit the page.

Specification parameter

Wavelength range	800~1700
Probe Type	InGaAs
Measuring range	-70~+6、-70~+10、 -50~+26
Uncertainty	±5%

Standard wavelength (nm)	850/980/1270/1300/ 1310/1490/1550/1577/1625
Display resolution	Linear display: 0.1% Logarithmic display: 0.01dBm
Frequency identification (Hz)	270、1000、2000
Quiescent Current	≤18uA
Working current	≤25mA
Battery working time(h)	≥20H
Charging voltage	5V
Recharging curren	≤500mA
Charging time	≤3H
Auto off time(min)	10
Power supply	Rechargeable lithium battery、External input
Battery	350mAh
Instrument size	126*35*16mm
Instrument net weight (g)	52

Data is for reference only, please refer to the real thing

Note:

1. wavelength range: Specifies a standard operating wavelength in the range from in min to in max, In this wavelength The optical power meter can work under the specified index.
2. Power measurement range: The range of maximum power that can be measured according to the specified indicators.
3. Uncertainty: The error between the measurement result of a certain optical power and the standard optical power measurement result.

Frequency automatic identification function

When the machine receives a light decay with a frequency, 3rd row auto display: 270Hz, 1000Hz, 2000Hz.

Charging function

Standard USB +5V charging, When plugging in the USB cable, Lights up the USB icon when powered on, The battery indicator flashes during charging; full charge, The battery indicator stops flashing.

The standard configuration

Host, product warranty card, certificate, instruction manual, lanyard, USB charging adapter cable.

Common malfunctions

fault display	Possible reason	Solution
LCD display is weak	Low battery	Charge
Boot not showing	Low battery or other	Reboot or charge
LCD display data is abnormal	Connector faulty, dirty or locked	Reconnect the connector and clean the sensor

Daily Care and Maintenance

1. Please keep the sensor end face clean, To be fat-free and pollution-free, Do not use dirty and non-standard adapter fittings, Do not insert into poorly polished ports, Otherwise, the sensor end face will be damaged, error in the test.
2. Stick to one adapter whenever possible.
3. Once not in use, Immediately close the dust cover, Protect the end face cleaning, Prevent measurement errors caused by long-term exposure to dust attached to the air.

4. Please plug and unplug the adapter connector carefully, Avoid scratching the port.

5. Regularly clean the sensor surface, When cleaning the sensor surface, Please use the special cleaning cotton swab to wipe gently in the circumferential direction.

Warranty Regulations

- Within 12 natural months since the user receives the goods, Our company will promise the quality and craftsmanship of its products, The warranty period is within 12 natural months from the date of receipt: When the purchased product is found to have quality problems during this period, Our company will deal with or replace accordingly, but in any case, Our liability will not exceed the purchase value of the product.
- If there is a problem with the instrument during use, According to the common fault prompt scheme still can not be solved, Users are not allowed to open the case without authorization, Please contact us.

- For product defects caused by failure, Our company is responsible for free repair or replacement of the product.

Note:

This warranty applies only to normal use of the meter, And without damage or normal use, Failure due to product quality or material defect, Our company is responsible for free maintenance or replacement. For unexpected situations, improper use, Self-starting repairs, Our company reserves the right to refuse the warranty.