

## Daily maintenance

1. Please keep the sensor face clean, do no oil, no pollution, no clean and do not use non-standard adapter connector, do not insert end polishing surface difference, otherwise it will damage the end face of the sensor, the test error.
2. Use one kind of adapter as much as possible.
3. Once the H-OPM is not in use, cover the dust cap immediately to protect the end surface from cleaning and prevent the measurement error from being exposed to dust for a long time.
4. Carefully plug optical adapter connector to avoid port scratches.
5. Periodically clean the sensor surface. When cleaning the sensor surface, wipe gently in the circumferential direction with a special cleaning swab.

## Quality assurance

1. Since the user received the goods in eighteen months, our will on the quality of its products and technology acceptance, the warranty period of eighteen months from the date of receipt; when the purchase of products during the period were found to have quality problems, we will make the appropriate treatment or replacement, but in any case, our the responsibility does not exceed the product purchase value.
2. If the instrument is in the process of using the problem, according to the common failure prompt program still can not be solved, the user must not open the shell, please contact us.
3. Our company is responsible for the free maintenance or replacement of product defects.

**Note:** This warranty is only applicable to the normal use of the instrument, and without damage or normal use, due to product quality or material defects caused by failure, our company is responsible for free repair or replacement. For unforeseen circumstances, improper use, unauthorized boot repair, we have the right to refuse warranty.

## Warranty regulations

Thanks for purchasing our products. In order to protect your legitimate rights and interests, and to improve the after-sales service, this warranty regulation is formulated. Please read it carefully.

1. 18 months free warranty for this product since the date of purchase, if it exceeds the warranty period, we will charge accessories.
2. During the free warranty period, we have the right to refuse the warranty service and collect the maintenance fee, if:
  - A: User improper or erroneous operation leads to product failure.
  - B: Accidents caused by lightning or improper installation;
  - C: Label is damaged or unauthorized to disassemble the equipment for maintenance.
3. Products under repair are properly packed and shipped. The company is not responsible for any damage or loss in the delivery process.
4. Please read the product instruction carefully before using the product.
5. The warranty card must be stamped and dated to ensure your rights.

Certificate  
of Quality  
QC: 011

# Optical Power Meter Instructions

# linkerpro

## Overview

Hand-held Optical Power Meter (OPM)/Optical Power Meter + Visual Fault Location(VFL) integrated machine series are mainly used for continuous optical signal power measurement. Low power microprocessor is used for control, products have the advantages of fully functional and reliable performance. Widely used in optical fiber construction and maintenance, optical communication, CATV and other fields. OPM uses the built-in detector, which can be protected well. With a small shape, you can choose the backlight display and automatic shutdown function, with ultra wide optical power testing range.

**Note:** The specification version is subject to change without prior notice.

## Product features

- ◆ Support linear mW and nonlinear dBm display
- ◆ Support automatic shutdown
- ◆ Support backlight selection
- ◆ Support user self-calibration
- ◆ Support restore factory settings
- ◆ Supports FC, SC, and ST interfaces
- ◆ Working time is longer than 120 hours

## Function description

Short press: press less than 1 second;  
Long press: press than 2 seconds.

### 1. Turn on/off

Short press to turn on. Long press to turn off.

### 2. ZERO

Long press to realize zero adjustment, LCD right upper corner will show prompt.

### 3. AUTO OFF

Short press to turn on or turn off the automatic shutdown function; the upper left corner of the LCD will display the prompt at the same time; the automatic shutdown time is 10min.

### 4. LIGHT

OPM:Short press to turn on or off backlight; prompt displays at the top left corner on LCD.

VFL:Short press to turn on or off backlight. Long press to turn on or off VFL; When VFL is turned on, the red light can be normally opened and flashing with a short press of the key.

### 5. dB

The relative measurement of optical power can be carried out at the corresponding wave.

### 6. $\lambda$

8 different wavelengths can be switched, LCD display at the same time after setting.

### LCD display description:

The measured power values are displayed in the form of dB, dBm, mW,  $\mu$ W and nW. There are 8 kinds of display wavelengths.

### Calibration function:

- 1.Press "ZERO" + "LIGHT" keys at the same time to enter calibration mode(Once again to exit, press the "LIGHT" key at this time, increase 0.05dB once, press the dB key to reduce 0.05dB once. The measurement error can be calibrated in this way. After the adjustment, press the ON/OFF key to save the calibration data.
- 2.Press "ZERO" + "AUTO OFF" keys at the same time to restore the factory settings.

## Technical indicators

## Unkedpro

OPM	
Wavelength range	800nm-1700nm
800nm-1700nm	800nm-1700nm
Connector	FC/SC/ST
FC/SC/ST	FC/SC/ST
Detector type	InGaAs
InGaAs	InGaAs
Measurement range	-70dBm~+6dBm
-50dBm~+26dBm	-50dBm~+26dBm
Accuracy	±5%
±5%	±5%
Standard wavelength	850/980/1300/1310/1490/1550/1625/1650nm
850/980/1300/1310/1490/1550/1625/1650nm	850/980/1300/1310/1490/1550/1625/1650nm
Display resolution	mW: 0.1%, 0.1dBm; 0.01dBm
0.1%, 0.1dBm; 0.01dBm	0.1%, 0.1dBm; 0.01dBm
VFL(optional)	
Wavelength	650nm±30nm
650nm±30nm	650nm±30nm
Output Power	2mW/10mW/30mW
2mW/10mW/30mW	2mW/10mW/30mW
Mode	CW/1Hz/2Hz
CW/1Hz/2Hz	CW/1Hz/2Hz
Connector	FC/SC/ST
FC/SC/ST	FC/SC/ST
Others	
Power	3 batteries/Lithium battery (optional)
3 batteries/Lithium battery (optional)	3 batteries/Lithium battery (optional)
Automatic shutdown time	10min
10min	10min
Continuous operating time	≥120h (OPM)
≥120h (OPM)	≥120h (OPM)
Working temperature	-10~+50°C
-10~+50°C	-10~+50°C
Storage temperature	-40~+70°C
-40~+70°C	-40~+70°C
Relative humidity	0~95% Non Condensing
0~95% Non Condensing	0~95% Non Condensing
Size	186mm×100mm×50mm
186mm×100mm×50mm	186mm×100mm×50mm
Weight	140g/150g
140g/150g	140g/150g

## Standard configuration

OPM/OPM + VFL(Host), Certificate, Operation Instructions, Warranty card, Three AA batteries/Lithium battery (optional), Oxford bag (optional), Universal joint (FC, SC, ST), Outer box

**Note:** Charging lithium battery charging voltage is 5V, you can charge it with your mobile phone charger.

## Common troubleshooting solutions

Failure Phenomenon	Possible Cause	Settlement
LCD displays dark	Low power	Replace batteries or charging in time
Boot is unable to display	Power shortage or other	Reboot or charging in time
LCD abnormal data display	Joint failure, foul or locked	Reconnect connector and cleaning sensor