1. Overview

This optical power meter was designed by using newest integrated circuit technology, which makes operation to be much easier and also more cost-effective. It is used to measure optical power in all type networks and to perform insertion loss measurements on both SM and MM Fiber Optic links. It is an essential and ideal optical fiber tester for field use.

Features

- Portable and easy-use-use.
- Reference power level storage(Ref Setting)
- More calibrated wavelengths (850/1300/1310/1490/1550/1625nm)
- Power measurements in dBm or mw and insertion loss in dB
- Automatic Power-off after10 minutes idle time and this function can be activated or deactivated by key operation.
- Backlight LCD display supports night operation
- Battery indicator, convenient for users to know the battery level status.
- Long battery life with AAA alkaline batteries.(up to 260hours)

Specifications

Type	Type A	Type C
Wavelength(nm)	800~1700nm	
Detector	InGaAs	
Measurement Range (dBm)	-70~+3	-50~+26
Uncertainty(dB)	±0.22	
Calibrated Wavelength(nm)	**850/1300/1310/1490/1550/1625**	
Resolution(dB)	0.01	
Optical Connector	FC(interchangeable SC,ST) / as well as 2.5mm universal Other types can be required on requests	
Power Supply	Alkaline Battery(3 AA 1.5V batteries)	
Battery Operating Time	260 h with 1.5V Battery(3)	
Operating Temperature(℃)	-10 ~ +60	
Storage Temperature(℃)	-25 ~ +70	
Relative Humidity	0 to 95% (non-condensing)	
Dimension(mm)	164x78x35	
Weight(g)	260	

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.

Standard packages

Handheld Power Meter(1pcs)+1.5V AA batteries(3pcs)+Cotton Swabs(1pcs)+Soft Carrying Case(1pcs)

2. Panel and Functions

(1) **LCD:**

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

(2) **ON/OFF Key:**

Press the key to turn the unit on/off. Press the key with a shorter time to activate or deactivate the AUTO OFF feature.

(3) **LIGHT Key:**

To turn the background light on/off.

(4) "REF"

Press this key for a few seconds to store the current power value as the reference value, then user can perform relative power/Loss measurements.

(5) **UNITS Key:**

Press this key to switch between units of dBm,dB and nW.

(6) **"λ" Key:**

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

3. Operation and Notes

ON/OFF

(1) Press the On/Off key for a few seconds to turn on the unit

(2) Press the On/Off key for a few seconds to turn off the unit

Absolute power measurement

(1) Turn on the Power Meter

(2) Press the λ key to switch between the wavelengths.

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

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 REF key, then current power value is stored as a reference value in dB unit. At the same time it also display 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..

Auto-off : Press **ON/OFF** key to turn on or off the auto-off function. The auto-off symbol will be displayed on the top right. The unit will be turn off automatically after 10 minutes idle time.

Background light On/Off: Under the Working Mode, press LIGHT to turn the background light On/Off.

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 begin scratched or contaminated when the power meter is 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.

5. Troubleshooting

Description	Problem	Method
Faint LCD display	Battery is weak	Change battery
No display after turning on the unit	Battery is weak/Others	Turn on the unit again/Change battery
Insensitive display in LCD	Light interface is polluted/ broken/Display locked	Check connector carefully and clean sensor's interface

6.　Warranty

Caution: Repair it in the field is Forbidden.

18 months warranty for this handheld Optical Power Meter.

1)　We warrant that this handheld power meter will be free from defects in material and workmanship for **18 months**. Should the device fail at any time during this warranty period, we will, at its sole discretion, replace, and repair or refund the purchase price of the product. The worth of the repair or replace will not be higher than purchasing price of this unit.

2) If the problems occurred can not be solved by the trouble shooting methods, please contact us or the local distributor directly.

3) This warranty is limited to defects in our production, workmanship or material; we will repair or replace the unit free of charge. This warranty only applies to the unit under normal operation without any damage or wrong operation.

4)　The warranty does not include the following problems:

● 　　Repair the unit by yourself without our official authorization.

● 　　Wrong operation or accident

5)　As to the freight cost caused by repair or replaces the unit under warranty; it will be shared by both parties together.

For any further questions please do feel free to contact your provider or our local distributors!