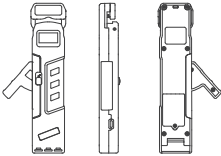




PON Port Clearing device

User Manual

Overview



The PON port idle clearing tester adopts macro-bending technology to conduct non-destructive testing on PON lines. Without interrupting services at the PON user access end, the device can accurately identify the online status of optical modems, detect whether there are upstream burst optical signals of 1310nm/1270nm in optical fibers, and thereby judge if the optical fiber is online. It is widely used for installation and maintenance to release idle PON ports.

Product Features

- ◆ Applicable to 2mm/3mm/900um fibers
- ◆ Detect uplink burst light to identify online optical modems
- ◆ Measure uplink optical power, displayed via progress bar
- ◆ High-definition OEL display, clear visibility in dim environments with no extra lighting needed
- ◆ High testing sensitivity
- ◆ Adopts handheld clamp with ergonomic design for comfortable grip, no fatigue even after prolonged use.
- ◆ Freely switch between buzzer and vibration alert modes
- ◆ Built-in low-power lithium battery
- ◆ Universal clamp fits various fibers without replacement
- ◆ Optical power meter with wavelength division function, measuring power at 1490nm and 1577nm simultaneously (optional)
- ◆ Standard VFL function with 2.5mm universal interface
- ◆ Timed switch and stepless power adjustment for lower power consumption

Power On/Off



Short press this button to power on, long press to power off.

Flashlight



Press this button briefly to turn the flashlight on or off while the device is powered on.
The display shows the flashlight status synchronously.



VFL



Press this button briefly while the device is powered on to switch the red light status.

(Constant on / 1Hz flashing / 2Hz flashing / Off)
(The current working status of the red light is displayed on the screen.)

Menu Bar Icon Description

Identifier Mode — FI

Wavelength Division Power Meter Mode — OLT

Power Meter Mode — OPM

Setting Mode — SET

Current Working Mode

Flashlight Off (Empty)

Flashlight On

Flashlight Status



Auto Power-off Icon

VFL Status

Battery Power
Current Battery
Power

Auto Power-off Disabled (Empty)

Red Light Off (Empty)

10min Auto Power-off Display

Red Light Constant On VFL

30min Auto Power-off Display

1Hz Flashing

VFL1Hz

60min Auto Power-off Display

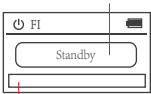
2Hz Flashing

VFL2Hz

PON Port Idle Clear Tester

After power-on, it defaults to the mode of waiting for fiber clamping to test online optical modems.

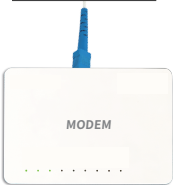
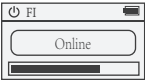
After clamping the fiber, it displays "Online ONU" or "No ONU Detected" here.



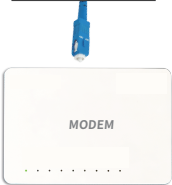
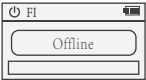
Burst Optical Intensity Progress Bar



Online Optical Modem
Uplink burst light detected,
modem in normal communication state



No optical modem detected:
No uplink burst light.
The modem is powered off,
unregistered or fiber cable
disconnected.



Wavelength Division Power Meter

(This page is available on models with wavelength division function)



Press this key briefly in Identifier Mode to enter Wavelength Division Power Meter Mode.

Press this key briefly in Wavelength Division Power Meter Mode to enter Normal Power Meter Mode.

In the Wavelength Division interface, long press this key to set the current power as the reference power and enter the relative power (dB) display mode.

Optical Direction Indicator Symbol

 OLT	
1490nm -50.00dBm	
1577nm -50.00dBm	

 OLT	
1490nm 0.00dBm	
1577nm 0.00dBm	

Optical Frequency Indicator Symbol

OPM

Optical Power Meter Wavelength OPM

 OPM	
1310nm -50.00dBm	
CW	
Lin Power: 10.000nW	
Rel Power: -50.00dBm	

Power Meter Detected Frequency

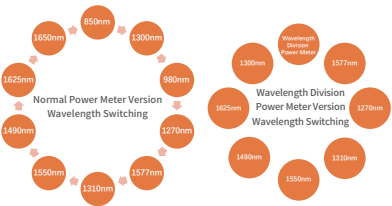
Linear Power Relative Power



Press this key briefly to switch the wavelength.

Long press this key to set the current power as the reference power.

Power Meter Wavelength Switching



Settings

🔌 SET
1.FI SET
2.OPM SET
3.VFL SET

🔌 SET
4.SYSTEM SET
5.SAVE & EXIT



Short press this key to enter the current setting item.

In Identifier Mode and Power Meter Mode, long press this key to enter the setting mode.

In setting mode, short press this key to switch settings:

1. Identifier Settings
2. Power Meter Settings
3. Red Light Settings
4. System Settings
5. Save and Exit

Identifier Settings



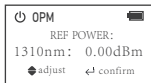
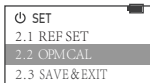
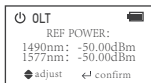
The FI coefficient is non-adjustable. It changes automatically after ambient calibration. Excess ambient light may cause false identification of optical modems, recalibrate ambient light in this case.



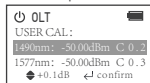
保存并退出设置页面



Optical Power Meter Settings



If equipped with wavelength division power meter



Short press to adjust the value.
(Long press for fast increment.)
Step: 1 dB



Save and exit the settings page.

Short press to adjust the value.
(Long press for fast increment.)
Step: 0.1 dB

VFL Settings



Set start time and off time.

Step: 1 minute

Range: 1-60 minutes

After selecting "Start", timing begins.

Red light turns on and off automatically at the set times.

After clicking Start, a red light timing icon will be displayed at the top.



These two keys adjust values and switch the setting item.



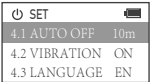
Short press this key to adjust the red light output power percentage.

Adjustable range: 0%~100%
(Long press for quick adjustment.)



Save and exit the settings page.

System Settings



Switch setting items



Switch setting items



Auto Power-off: 10m/30m/1h/Off
Vibration Mode: Off/On
Language: Chinese/EN
Factory Reset



Save and exit the settings page.

Daily Maintenance

1. When using the fiber identifier, ensure the fiber under test is correctly placed in the clamp groove and must not be bent. Do not touch both sides of the clamp with hands or other objects.
2. Keep the detectors on both sides of the clamp clean, and regularly clean the detector surfaces with cleaning solution. Remove the batteries if the device will not be used for a long time.

Quality Assurance

We do not recommend users to repair the fiber identifier by themselves.

- 1.If the purchased product is found to have quality problems within this period, we will repair or replace it accordingly.In no event shall our liability exceed the purchase price of the product.
2. If the instrument malfunctions during use and cannot be resolved following the troubleshooting guide, do not open the casing without authorization. Please contact us directly.
3. We are responsible for free repair or replacement of the product for failures caused by product defects.

Note:This warranty applies only to the instrument under normal use.We provide free repair or replacement for failures caused by defects in product quality or materials under normal use without damage.

We reserve the right to refuse warranty service in case of accidents, improper use, or unauthorized disassembly and repair.

Warning

Any changes or modifications not expressly permitted by this manual will void your authority to operate this equipment.To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.To prevent electric shock, do not open the enclosure.Repairs must be performed by qualified personnel only.

Note

Since the laser beam of this device is harmful to eyes, do not attempt to disassemble the casing or look directly into the laser output port.



Warranty Instructions

Dear Customer,

Thank you very much for purchasing our product. You will enjoy the after-sales service provided by our company during future use. Please keep this card properly!

The warranty terms are as follows:

1.The main unit and its included accessories (excluding flanges, data cables, and instrument bag) are under warranty for months from the original date of purchase.

2.If the product malfunctions under normal use during the warranty period, please present this warranty card to our company for free repair.

3.Within the free warranty period, we reserve the right to refuse service or charge for materials and service fees under any of the following conditions:

- Product failure or damage caused by improper use;
- Battery leakage, sharp scratches, breakage, etc., caused by human factors;
- The faulty product or components have been disassembled, modified, or repaired without authorization;
- Product labels and serial numbers are unclear, damaged, or altered;
- Failure or damage caused by improper transportation or external condition changes (e.g., sudden voltage surge);
- Water or other liquid ingress into the device due to improper storage environment, resulting in damage;
- Failure or damage caused by force majeure.

Model			Product No.		
Product Name			Purchase Date		
Customer	Company				
	Contact Person		Email		
	Telephone		WeChat		
	Address				
Seller	Company				
	Contact Person		Email		
	Telephone		WeChat		
	Address				
Date of Repair Service	Fault Description	Cause of Fault	Processing Result	Inspection Date	Service Personnel Signature