User's Guide to the FHP2P01

Power Meter Quick Guide

www.grandwaytelecom.com

Specifications

Calibrated Wavelength	1310nm(Burst)	1310nm(CW)	1490(nm)	1550(nm)
Sensor Type	InGaAS			
linearity	±0.2dB@1550nm≥-40dBm			
Isolation	1490nm wave band＞40dB 1550nm wave band＞40dB		1310nm wave band＞40dB 1550nm wave band＞30dB	1310nm wave band＞40dB 1490nm wave band＞30dB
Measuring Range(dBm)	-32dBm~+10dBm	-40dBm~+10dBm	-50dBm~+15dBm	-50dBm~+20dBm
Insertion Loss(dB)	1.5			
Spectral Width(nm)	1260~1360		1480~1500	1539~1565
Accuracy(dB)	0.5dB±1nW@1550nm			
Threshold	10sets, set by upper-computer			
Data storage	999 sets			
Working Temp	-10°C ~ +50°C			
Humidity	0% ~95%RH			
Optical Port	SC/PC, FC/PC(APC is optional)			
USB Port	Type-C USB			
Power Supply	2*AA battery			
External power	AC/DC adapter 5V/1A			
Dimension	L*W*H 160mm*76mm*45mm			
Weight	Approximate 400g			

General Description

FHP2P01 power meter is a small size,low loss and good quality handheld optical power meter.it is designed for the test,installation and maintenance of FTTx PON network,compatible with the networks of APON,BPON,EPON and GPON .FHP2P01 has two measuring ports for ONU and OLT/video,which support CW/brust upstream detection at 1310nm and downstream at 1490nm/1550nm(CATV signal).It can directly indicate the test,pass,warning or failure status of optical network by threshold setting.FHP2P01 is the ideal tool for PON setting and maintenance.

Feature

- Support measuring 1310nm upstream burst signal and 1490/1550nm downstream signal
- Support APON, BPON, EPON, GPON network
- 999 data storage function
- Support Pass, Warning, Fail test mode
- Intelligent charging and auto power off
- USB TYPE-C interface supports charging and data upload
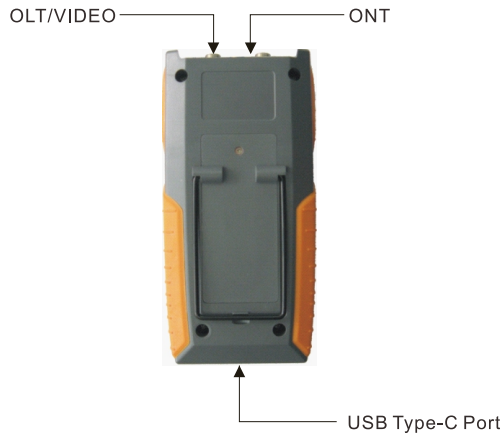- Bluetooth is optional, support for mobile APP function

Operation

NO	Icon	Description
1	ON/OFF	ON/OFF button, long press(>2s) when power on to disable the auto-off function
2	P/F	Enable Fass/Fail test mode Up direction button
3	dBm/dB	Switch display unit dBm/dB Delete the history data
4	LOAD	Long press(>2s) to store the current optical value Short press to browse history data
5	REF	Long press(>2s) to save the current optical power value as the Reference value Short press to display the current reference optical value Down direction button
6	☀	Turn on/off backlight Long press(>2s) to switch 1310nm CW test mode and Burst test mode Note: When measure 1310nm signal from ONU, Burst mode should be selected
7	🔊	Turn on/off instrument sound
8	Pth	Short press to check the threshold setting Long press(>2s) to select the threshold mode
9	✳	Bluetooth on/off button (optional function)

Port Indication：

OLT/VIDEO   ONT

USB Type-C Port

Fault Analysis

Fault	Reason	Solution	Remark
Can't turn on meter	No batteries or external power	fill batteries or connect external power	Solve by yourself
	Batteries have no power	Replace batteries or charge rechargeable batteries	Solve by yourself
	Batteries are not placed	Reconnect batteries in a right way	Solve by yourself
	in the proper position	Still can't slove this problem	Send it back to manufacturer
Shut down immediately after turned on	Run out of Batteries	Replace batteries or charge rechargeable batteries	Solve by yourself
Measuring error is big	Connector has contaminant inside	Clean by alcohol-impregnated cotton	Solve by yourself
	Connector is not connected properly	Reconnect it	Solve by yourself
Display error information or messy code	High humidity	Try to reduce humidity or change to another environment	Solve by yourself
	Environmental magnetic field is too strong	Get away from the magnetic field	Solve by yourself
	Too many metal-dirt in the air	If circuit has broken then change the mother board	Send it back to manufacturer
Can't turn on or turn off meter properly	High Humidity	Try to reduce humidity or change to another environment	Solve by yourself
	Power button has broken	Replace a new one	Send it back to manufacturer

Caution:
This meter has the function of intelligent charging, please use optional rechargeable batteries and adapters which manufacturer recommended. Manufacturer shall not responsible for the damage caused by other batteries and adapters.

Common Maintenance：

1:After using the instrument, please turn off it and cover it with a protective cap to prevent the optical interface from entering dust, and place it in a dry and ventilated place.

2:If not use for a long time, please remove the battery.

3:Please use the standard power adapter 5V/1A and rechargeable battery to charge the instrument

4:Unauthorized disassembly, instrument failure caused by abnormal use/charging, will lose warranty eligibility

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