

BD-PON-P2 Power Meter



Quick Guide

Specification

Calibrated wavelength	1310nm(Burst)	1310nm(CW)	1490(nm)	1550(nm)
Sensor type	InGaAS			
linearity	$\pm 0.2\text{dB}@1550\text{nm} \geq -40\text{dBm}$			
Isolation	1490nm wave band>40dB 1550nm wave band>40dB	1310nmwave band>40dB 1550nmwave band>30dB	1310nmwave band>40dB 1490nm wave band>30dB	
Mearsuring Range(dBm)	-30dBm~+16dBm	-40dBm~+16dBm	-50dBm~+16dBm	-50dBm~+23dBm
Insertion Loss(dB)	1.5			
Spectral Width(nm)	1260~1360	1480~1500	1539~1565	
Accuracy(dB)	$0.5\text{dB} \pm 1\text{nW}@1550\text{nm}$			
Threshold	10sets, set by upper-computer			
Data stroage	900 sets			
Working Temp	$-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$			
Humidity	0% ~ 95%RH			
Adapter	SC/PC (ST/PC、FC/PC customizable)			
Communicating port	USB port			
Power Supply	*AAA battery			
	2			
External power	AC adapter DC6V/1A (optional)			
Dimension	L*W*H 170mm*76mm*45mm			
Weight	Approximate 400g			

General Description

BD-PON-P2 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 FTTH PON network, compatible with the networks of APON, BPON, EPON and GPON. BD-PON-P2 has two measuring ports for ONU and OLT/video, which support CW/burst upstream detection at 1310nm and downstream at 1490/1550nm. It can directly indicate the test, pass, warning or failure status of optical network by threshold setting. **BD-PON-P2** is the ideal tool for PON setting and maintenance.

Feature

- Hand-held, compact design for site operation
- Two testing ports with "ONU" & "OLT/Video"
- Support networks of APON, BPON, EPON, GPON
- Able to store measuring data
- Interface by USB port
- Built-in intelligent charging function

Button Definition



um	Icon	Description
1		Power button. Hold (>2s) to turn off the function of auto-shut down.
2		Measuring mode select button. Able to switch between normal measurement and P/F measurement under main mode.
3		Storage button. In main mode, Hold (>2s) to storage value of current optical power.
4		Backlight button. to open/close backlight. In main mode Hold (>2s) to switch between 1310CW and 1301Burst.
5		Unit change button. Used to switch between dBm and dB.
6		In man mode. Short press to view the current value of REF; hold (>2s) to storage current power value as reference value.
7		View the value of threshold, push "LOAD" button and dBm/dB button simultaneously to quit.

Port Indication:

OLT/VIDEO ONT



Power socket(DC6V) USB port
Indicator light

Standard accessories: 2*AAA battery, USB cable, cross screwdriver, manual
Optional accessories: power adapter, 2*rechargeable battery, storage pocket

Fault	Reason	Solution	Remark
Can't turn on meter	No batteries or external power	fill batteries or connect external power	Slove by yourself
	Batteries have no power	Replace batteries or charge rechargeable batteries	Slove by yourself
	Batteries are not in the proper position	Reconnect batteries in a right way	Slove by yourself
Still can't slove this problem		Send it back to manufacturer	
Shut down immediately after turned on	Batteries have no power	Replace batteries or charge rechargeable batteries	Slove by yourself
Measuring error is big	Connector has contaminant inside	Clean by alcohol-impregnated cotton	Slove by yourself
	Not connected properly	reconnect	Slove by yourself
Display error information or messy code	High Humidity	Try to reduce humidity or change to another environment	Slove by yourself
	Environmental magnetic field is too strong	Get away from the magnetic field	Slove 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	Slove 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.

It is forbidden to charge AAA battery by this meter, manufacturer shall take no joint liability for explosion, fire or other unpredictable accident caused by wrong operation.

Common Maintenance:

1. Please shut off and cap protecting cover for fiber port after use then keep it in ventilated and dry place.

2. If you don't use this meter for a long time please take out the batteries in order to avoid the corruption of battery.

3. Meter needs matched accessory and adapter for External power to prevent permanent damage.

4. Clean fiber connector regularly.

5. Calibrate once a year to keep the accuracy of measurement

6. Please don't disassembly the meter, This may result in permanent damage and loss of guarantee qualification.

① Working hours will different under various condition and battery status.

② This meter has the function of charging ,in order to avoid explosion, please use suitable rechargeable battery and don't use unchargeable batteries.