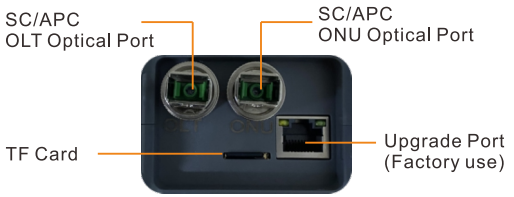
FOH-200XGS-PRO PON Tester

Quick Guide

Grandway®

Interface Description



Top interface

Bottom interface

Button name	Function
F1-F4	Enter the corresponding function in different menu F1: "SET" Enter the setting menu F2: "Save" Save the current test result F3: "Auto" Select the PON mode between GPON/XGSPON and Auto identify F4: "File" Enter the history files
TEST	Press Test button to retest or Clear current test data
Navigation button	Used to control up, down, left and right
OK button	Used to confirm selection
ESC	Exit current menu
⏻	Long press for over 2s to turn on/off

Features

- Automatic PON-ID detection including OLT PON-ID, ODN class, Tx power, power level and ODN link pass/fail per ITU-T
- ONU/ONT ID and serial number, ONU status identification
- Downlink 1490nm/1577nm and uplink 1270nm/1310nm optical power measurement and judgement
- Test mode: two optical ports pass through mode, low insertion loss <1.5dB (typical)
- Bluetooth connection with phone app
- Low power consumption for extended continuous use
- Support 20W quick charger

Applications

Automatic OLT and ONU information analysis for Combo G/XGS-PON

Through connecting FOH-200XGS-PRO in series to the PON fiber link, it can automatically analysis extracts specific data carried in the G-PON & XGS-PON standardized by ITU-T G.984.3 Amendment 3, including OLT PON-ID, ODN class, Tx power and ONU/ONT ID and serial number. At the same time, it can also detect the current status of the ONU.

The usage scenario and results are shown in the following figure:

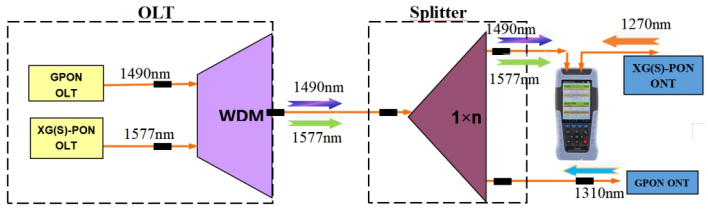


Figure1: Usage scenario (After last splitter in PON)

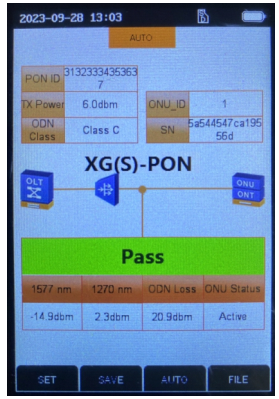
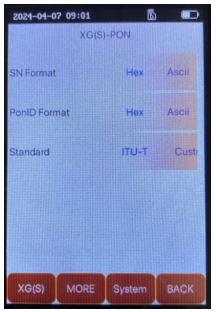
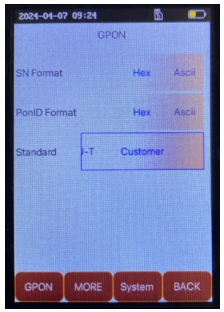


Figure2: Test result

Setting Interface

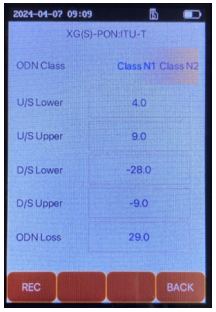
Press F1 “Set” button to enter the setting menu, you can select PON ID and SN format between HEX and ASCII code. Also you can select the PON standard between ITU-T or User defined.
Press F1 button to change the XG(S)-PON mode or GPON mode.



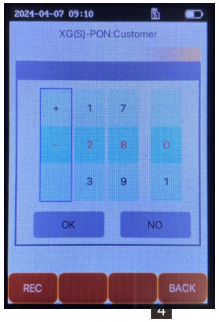


Pass/Fail Threshold Setting

Press F2 “More” button to set the pass/fail threshold according to ITU-T standard or User defined.
When the standard selection is in ITU-T mode, the threshold can not be changed.
When the standard selection is in Customer mode, the threshold can be



ITU-T standard



User defined standard

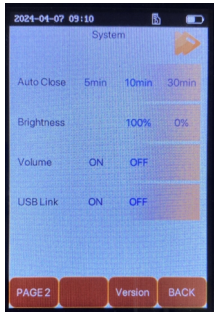
Bluetooth Connection with Phone APP

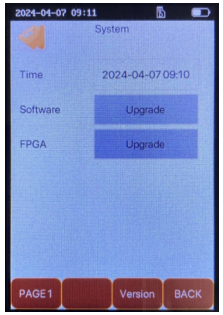
By scanning the following QR code to download the Android mobile application of FOH-200XGS-PRO, The measurement results of the instrument can be synchronously displayed on the mobile phone. Connect wirelessly based on the Bluetooth MAC address on the back of the instrument panel. Click “Export to PDF” on the phone APP and the test result will saved as PDF format.

Android Software QR code

System

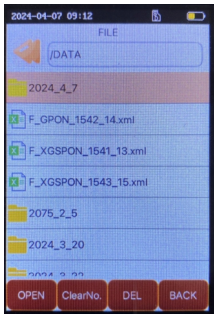
Press F3 “System” button to check the instrument system information page. In system, “auto close”, “brightness”, “volume”, “USB Link”, “Time”, “Upgrade” can be set. Before upgrading, please copy the upgrade files to the UPDATE folder.





FILE

Press F4 “File” button to check the saved files. The saved files are saved in the folder name by the test date. The test files can be exported to the computer via TYPE-C USB cable.



Parameters

Items	Specifications
Applicable Network	Version 1 GPON+XG(S)PON Version 2 GPON+XG(S)PON+EPON+10GEPON
Test Mode	Series connect: Two ports pass through mode
Insertion loss	<1.5dB insertion loss
PON Data Parsing	OLT information: OLT PON ID, ODN class, Tx power ONU information: ONU ID, ONU SN
Power Measurement	Downlink: 1490mm and 1577nm Uplink: 1270nm and 1310nm
Optical Interface	SC/APC*2
Charging Port	USB Type-C charging port 20W quick charger
Power Supply	5000mAh lithium battery;
Data Storage	16G TF Card
Working Temp	-10℃~50℃
Humidity	5%~95%(no condensation)
Dimension	193×94×47mm
Weight	609g
Display	3.5 inch color LCD
Wireless	Bluetooth connection with Android phone app