






## FHP3P05 PRO 10G PON Optical Power Meter



### Description:

FHP3P05 PRO 10 G PON power meter is suitable for the G/EPON, XG(S) PON/ 10 GE PON and overlay RF video signal power testing. It can simultaneously measure the voice, data and video signals on 1490nm/ 1550nm/ 1577 nm (downlink) and 1270nm/ 1310nm (burst mode uplink) optical fiber, the 3.5inch touch screen displays the signal power of each of the 5 wavelengths, which enables the maintenance personnel to truly master the real power value of the single wavelength optical signal on the line. It is an ideal choice for PON network engineering, construction and maintenance to detect and analyze whether the signal power is meet the standard by threshold data set by the instrument itself.

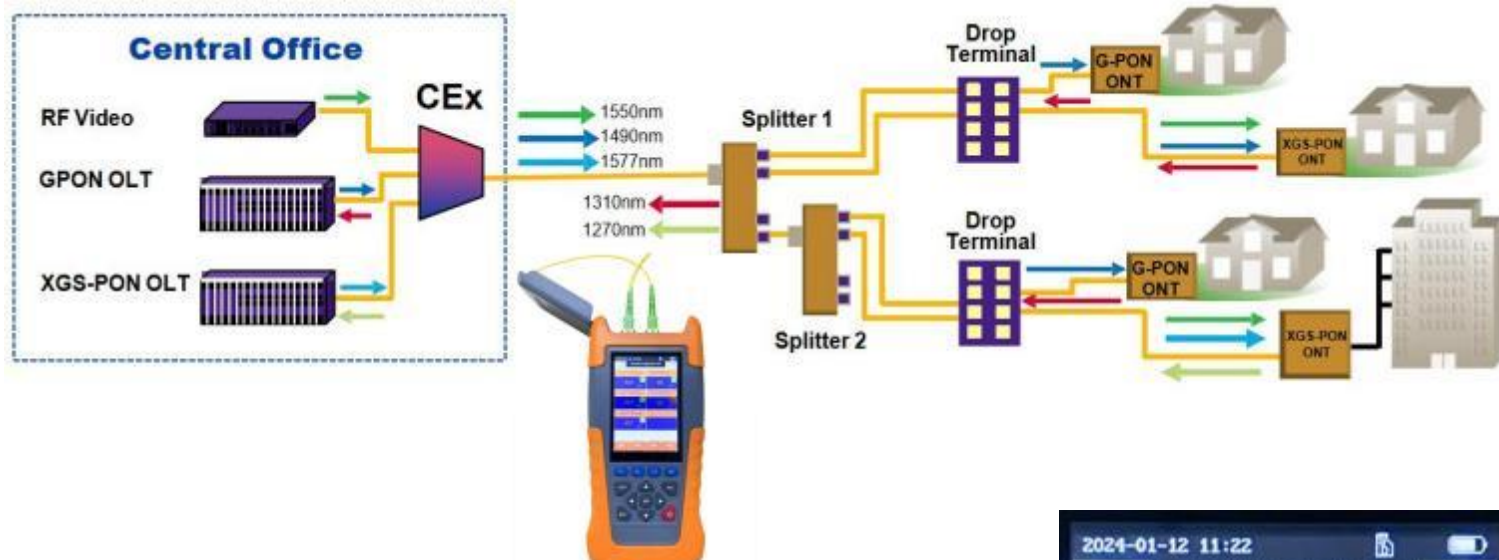
### Features:

-  3.5-inch color touch screen, 320\*480 TFT
-  Supports co- existence of G/E- PON, XGS- PON/ 10G- EPON and RF video services uplink and downlink power test
-  5 wavelength power value simultaneous measurement and display
-  The instrument can set the measurement threshold to determine the pass, warning, fail state
-  Water and dust resistance meets IP52 standards. The shell is made of sturdy protective polycarbonate material.

## Applications:

### 10GPON Downlink and Uplink Power Measurement

Applicable to GPON/EPON, XG(S)-PON/ 10G EPON and overlay RF video Network. Support accurate power measurement for downlink 1490nm/ 1577nm/ 1550nm and uplink 1310nm/ 1270nm. Excellent isolation, with no interference between different wavelengths, accurately displaying the true power value of 5 wavelengths at the same time.

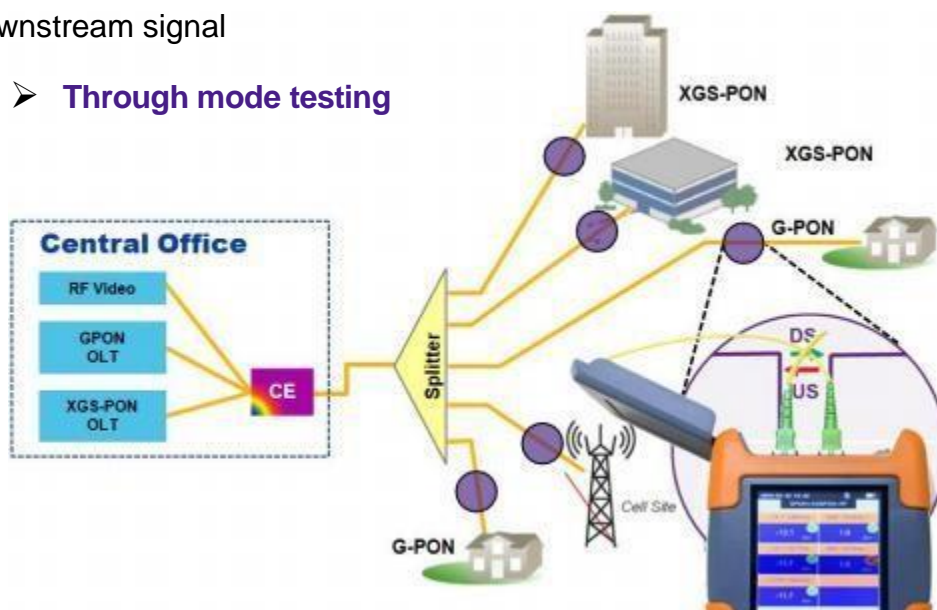


📖 Wavelength selective power measurements

➤ **Real 10G PON-OPM**

📖 Upstream channel only activated by downstream signal

➤ **Through mode testing**



2024-01-12 11:22	
GPON+XGSPON+RF	
↓ OLT: 1490nm	ONT: 1310nm ↑
-12.1 dBm	1.9 dBm
↓ OLT: 1577nm	ONT: 1270nm ↑
-11.7 dBm	1.5 dBm
↓ VDO: 1550nm	
-11.7 dBm	
SET	REF
dBm	FILE

**Specifications:**
**PON Power Meter Mode**

Wavelength	1270nm±10nm	1310nm±10nm	1490nm±10nm	1550nm±10nm	1577nm±6nm
Measuring Range(dBm)	+10~-35	+10~-35	+12~-40	+25~-40	+12~-40
Detector Type	InGaAs				
Isolation	> 40dB				
Insertion Loss	≤1.5dB				
Uncertainty	≤0.5dB				
Optical Port	SC/UPC or SC/APC				
Fiber Type	SM 9/125 μm				
Display Resolution	0.01dB				
Display Unit	dBm/dB/mw				
Data Storage	16G TF card, 1000 traces				

**VFL**

Wavelength	650±10nm
Output Power	10mw
Modulation Frequency	CW,1Hz and 2Hz
Optical Port	Universal 2.5 mm

**Others**

Operating Temperature	- 10~+50(°C)
Storage Temperature	-40~+70(°C)
Relative Humidity	0~95% Non condensing
Charging Port / Data Interface	Type-C USB port
Power Supply	AC/DC adapter: 100V~240V,50-60Hz; Lithium battery: 5000mAh
Battery Working	Standby > 20h / Measuring time > 12h
Dimension	192.9L×93.8W×47Hmm
Weight	480g