

# 50G PON Power Meter

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## Variants

PON-100G

## Details

The **50G PON Power Meter** is a professional optical test instrument designed for installation, maintenance, and troubleshooting of modern PON networks. It supports multi-wavelength optical power measurement for next-generation PON systems, including **GPON, XG-PON, XGS-PON, and 50G PON network environments**.

With support for **1270nm, 1286nm, 1310nm, 1490nm, 1342nm, and 1577nm** wavelength testing, built-in data storage, high display resolution, and optional 10mW / 20mW VFL, this meter is suitable for telecom operators, ISPs, FTTH technicians, and fiber maintenance teams.

Wavelengths

**6 Types**

Test Range

**-40 ~ +10 dBm**

VFL Power

**10 / 20mW**

Storage

**999 Records**

## Key Features

? Designed for 50G PON and Next-Generation PON Testing

? Supports 1270 / 1286 / 1310 / 1490 / 1342 / 1577nm Wavelengths

? Optical Power Test Range: -40 ~ +10 dBm

? APC Connector Standard, PC Optional

? Measurement Units: dB / dBm / mW /  $\mu$ W / nW

? 0.01 dB Display Resolution

? Built-in 10mW / 20mW Visual Fault Locator

? Stores up to 999 Test Records

## Wavelength & Optical Parameters

Parameter	1270nm	1286nm	1310nm	1490nm
<b>Spectral Bandwidth</b>	1260 ~ 1280nm	1284 ~ 1288nm	1300 ~ 1320nm	1480 ~ 1500nm

Parameter	1270nm	1286nm	1310nm	1490nm
<b>Test Range</b>	-40 ~ +10 dBm			
<b>Optical Isolation</b>	>30 @1286 / >30 @1310 / >40 @1490 / >40 @1577 / >40 @1342	>30 @1270 / >30 @1310 / >40 @1490 / >40 @1577 / >40 @1342	>30 @1270 / >30 @1286 / >40 @1490 / >40 @1577 / >40 @1342	>40 @1270 / >40 @1286 / >40 @1310 / >40 @1577 / >40 @1342

## Optical Specifications

<b>Connector</b>	APC Standard / PC Optional
<b>Measurement Unit</b>	dB / dBm / mW / $\mu$ W / nW
<b>Display Resolution</b>	0.01 dB
<b>Power Uncertainty</b>	$\pm$ 0.5 dB
<b>Linearity</b>	$\pm$ 0.1 dB / 10 dB
<b>Channel Insertion Loss</b>	1.5 dB
<b>Data Storage</b>	999 Records

## Visual Fault Locator (VFL)

<b>Output Power</b>	10 / 20 mW
<b>Connector</b>	FC / SC

<b>Wavelength</b>	650 ±10 nm
<b>Modulation</b>	CW / 2Hz

## General Parameters

<b>Working Temperature</b>	-10°C ~ +60°C
<b>Storage Temperature</b>	-25°C ~ +70°C
<b>Humidity</b>	0% ~ 80%
<b>Auto Shutdown</b>	5 ~ 90 min Adjustable
<b>Power Supply</b>	3 × AA Battery / 8.4V Adapter
<b>Working Time</b>	>32h Working / >60h Standby
<b>Dimensions</b>	76 × 177.5 × 40 mm
<b>Weight</b>	0.28 kg

### Applications:

50G PON Network Testing • GPON / XG-PON / XGS-PON Maintenance • FTTH Installation • ISP Field Testing • Telecom Optical Network Testing • OLT / ONU Signal Verification • Fiber Troubleshooting