Overview

VT–42PPM-XG optical power meter can measure the power value of the uplink and downlink signals of GPON/EPON and XGPON/XGSPON networks, including the uplink 1270nm/1310nm signal power. The downlink 1490nm/1577nm signal power is measured by split-wave.At the same time, it integrates the three functions of visual fault location, RJ45 cable sequence and line hunting test in one, which can measure all PON signals, and also can measure each wavelength separately, which is the ideal choice for PON network engineering, construction and maintenance. By setting different thresholds corresponding to different wavelengths, the PON power meter has a "PASS/FAIL" fiber certification detection function to ensure that service providers improve system performance lifetime by verifying network connectivity, so that engineering contractors have high-level critical certification tools to provide customers with reliable network projects.

Features

- Support GPON\EPON\XGPON\XGSPON signal simultaneous measurement
- Power division measurement of 1270/1310nm uplink signal
- Power division measurement of 1490/1577nm downlink signal
- PASS/FAIL threshold setting and calibration wavelength
- Support VFL optical inspection/RJ45 cable sequence/RJ45 cable tracking/RJ45 cable length
- Data can be saved and viewed, support up to 1200 results
- Easy to use: highly intuitive interface and 2.8 inch color LCD screen
- Robust and rugged: IP54 design for dust and water resistance for high durability
- Automatic shutdown can be set.

Long endurance,
lasting 20h working time

Multi-wavelength simultaneous
testing, different wavelength
simultaneous testing

USB interface,
power supply

Environmental adaptability
Operating temperature -10℃~+50℃

Specifications

10G PON OPM				
Model	VT-42PPM-XG			
Wavelength	1270nm±10nm	1310nm±10nm	1490nm±10nm	1577nm±10nm
Measuring range	-35~+10dBm	-35~+10dBm	-40~+12dBm	-40~+25dBm
Isolation	>50dB			
Uncertainty	≤0.5dB			
Insertion loss	≤1.5dB			
Detector type	InGaAs			
Display Resolution	0.01dB			
Fiber type	SM 9/125μm			
Connector	SC/APC			
VFL				
Wavelength	650nm ±20nm			
Output Power	≥ 10mW			
Mode	CW / 1Hz / 2Hz			
Laser SafetyLevel	Class III			
Distance	≥10km			
Connector	FC / SC / ST			
Measure Rj45 Network Cables				
Distance	≤300m			
Distance unit	m/ft			
Cable sequence	Yes			
Cable tracking	Yes (option)			
Others				
Display	2.8inch LCD color, 320*480px			
External storage	1200			
Data Interface	Type-C			
Power supply	Adapter: 5V DC - 2A.			
	Polymer Li-Battery: 3.7V, 1550mAh			
Battery life	Measuring time ~14h ; Standby ~22h;			
Operating temperature	-10℃ ~ + 50℃			
Storage temperature	-40 ℃ ~ + 70℃			

Relative humidity	0 ~ 95%, non-condensing
Size	140mm × 32mm × 73mm
Weight	255g

Packing

NO.	Name	Quantity	Remarks
1	VT-42PPM-XG	1	Battery included
2	AC/DC power adapter, data cable	1	
3	SC adapter	2	
4	User's manual	1	
5	Special backpack for instrument	1	

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