PPM-50 PON Power Meter

FTTx

The Smallest Full-feature PON Power Meter

Polytec

PPM-50 PON Power Meter can perform in-service testing of all PON signals (1310/1490/1550nm) on any spot of the network featuring pass-through design, burst mode and Pass/Warning/Fail assessment function, which can greatly help you evaluate PON signals transmission quality.

Features

- ◆ Specially designed for FTTx/PON (B/E/G) applications
- ◆ Easy operation: Connect fiber and get results
- ◆ Simultaneous Triple-play PON signals measurement: 1310/1490/1550nm (Voice/Data/Video)
- ◆ Pass-through test: Applicable anywhere on PON
- ◆ Burst mode 1310nm upstream signal detection
- ◆ User-defined thresholds on PPM-50 unit
- ◆ Pass/Warning/Fail assessment on PPM-50 unit
- ◆ Cable/Fiber ID editing
- ◆ CSV file format
- ◆ Color TFT, readable under sunlight
- ◆ Compact design

Pass-through Simultaneous Measurement & Display of All PON Signals

PPM-50 works as a pass-through device, which can be connected anywhere between OLT and ONU. A small percentage of optical signals are extracted for use by PPM-50 detectors. This approach enables all wavelengths to be used simultaneously and introduces no interruption to network services.
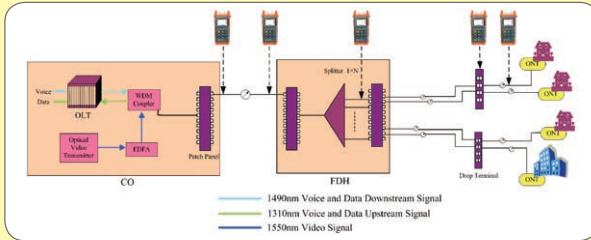
- ◆ Pass-through connection and simultaneous measurement of all PON signals
- ◆ Filtered detectors for individual signal measurement at each wavelength
- ◆ Upstream signal burst mode detection at 1310nm

Flexible Measurement on PON
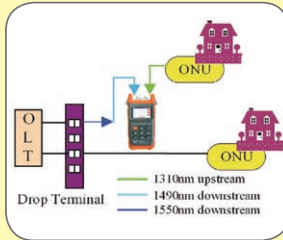
User-defined Threshold Sets

PPM-50 enables threshold setting—each set consists of three wavelengths (1310, 1490 and 1550nm) with their own Pass, Warning and Fail thresholds. These values can be configured for easy assessment of fibers, components and test points on network.

Specifications

Model	PPM-50		
Calibrated Wavelength	1310nm	1490nm	1550nm
Measurement Range (dBm)	-40 ~ +10 [1]	-40 ~ +12	-40 ~ +20
Spectral Passband (nm)	1310±50	1490±15	1550±10
Power Uncertainty (dB)	≤ 0.5		
Accuracy (dB)	0.01		
Insertion Loss (dB)	≤ 1.5		
Display	TFT		
Connector	FC/PC (Interchangeable SC, ST)		
Data Storage	>2000 records		
Data Interface	USB		
Power Supply	Rechargeable lithium battery (1050mAh) / AC adapter		
Battery Life	≥6 hours		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-25°C to 70°C		
Relative Humidity	0 to 95% (non-condensing)		
Weight	345g		
Dimensions (H×W×T)	177×80×44mm		

Note: (1) Burst mode measurement range at 1310 nm: -30 ~ +10dBm

* Specifications subject to change without notice