

# PPM-20

## PON Power Meter

— A specialized tester for PON networks

PPM-20 is specially designed for FTTx/PON test of next-generation optical network which features handheld, intelligent and high performance.

### An ideal tool for FTTx/PON pass-through and maintenance

**Pass-through:** Measurement of all PON signals all the way during the pass-through stage to ensure they meet network standard.

- Pass-through connection and simultaneous measurement of all PON signals.
- filtered detectors for individual measurement of each wavelength.
- upstream burst detection at 1310nm

**Maintenance:** During the daily maintenance phase, various transmission problems- fiber cuts, dirty connectors, fiber cuts, macro bending, optical transmitter failure, etc. may cause signal loss or degradation.

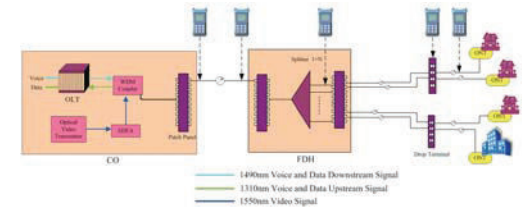
### Features

- Flexible chosen test position
- Fault identification and isolation
- The only Power Meter truly designed for BPON, EPON, GPON networking structures.
- Simply connect the fiber and read the results.
- Simultaneous measurement of PON signals of 1310/1490/1550nm Wavelength - voice, data and video.
- On-site test and measurement of PON signals, anywhere on the network without interrupting the services.
- 60 definable threshold sets to be named individually
- Pass/ warning/ fail indicators for easy realization of pass/ fail analysis.
- Upstream burst detection at 1310nm
- PC software analyze



### Flexible Measurement on PON Networking Structure

On-site test and measurement of FTTx/PON power value anywhere on the optical network, PPM-20 can be used to test, install and maintain FTTx/PON networking systems.



### Simultaneous measurement and display of all PON signals

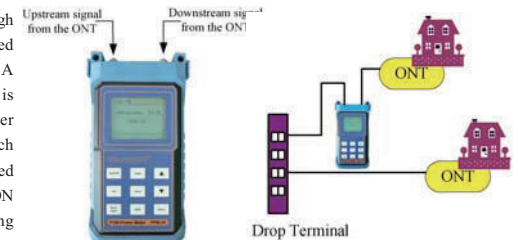
1310nm	PASS
1490nm	-3.15 dBm
	WRNG
1550nm	-20.76 dBm
	PASS
00fddd1	-3.29 dBm

Three Wavelengths Simultaneous Display

PPM-20 can simultaneously test three wavelength signals: upstream wavelength at 1310nm, downstream wavelength at 1490nm and 1550nm. Burst measurement function can correctly test burst power value of all upstream PON signal at 1310nm.

### Two ports pass-through design

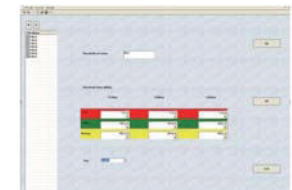
The PPM-20 acts as a pass-through device, which can be connected between the OLT and the ONT. A small percentage of the signal is extracted for use by the power meter's detectors. This approach enables all wavelengths to be used simultaneously. Also, since the PON equipment can keep functioning normally, the ONT continues to operate.



Two-port PON Power Meter

### Up to 60 User Definable Threshold Sets

PPM-20 has more than 60 definable threshold sets. Depending on the location of the test and the type of equipment used, different threshold values can be required. The PPM-20 enables you to select from up to 60 threshold sets—each set consisting of three wavelengths (1310, 1490 and 1550 nm) having their own pass, warning and fail thresholds. These values can be configured via the PPM Manager PC-based software.



PPM-20 Threshold Configuration Software





Technical Specifications:

Model		PPM-20	
Calibrated Wavelength(nm)	1310	1490	1550
Meas. Range (dBm)	10~-40	12~-40	25~-40
Spectral Passband(nm)	1310±20	1490±10	1550±10
Power Uncertainty (dB)	≤0.5		
Accuracy (dB)	0.01		
Insertion Loss (dB)	≤1.5		
Fiber Type	Single-mode fiber		
Connector Type	FC/APC(interchangeable SC,ST)		
General Specifications:			
Data Storage	60 sets		
Power Supply	Dual way power supply: NiMH rechargeable / AC adapter		
Battery Life	≥70 hours		
Operating Temp.	0°C ~ 50°C		
Storage Temp.	-20°C ~ 60°C		
Relative Humidity	0 ~ 95% (non-condensing)		
Weight	1.6 lbs (0.75kg)		
Dimension (WxT)	7.7x3.9x1.7 inch (196x100x44mm)		

**Ordering Information:**

Standard configuration:

Instrument (inc. rechargeable battery), Rubber boot, Data transfer cable(RS-232), PPM Manager data analysis software disk, AC adapter, Toolkit for soft bag, Warranty card, CE Certificate, Certificate of Calibration, User's manual

Optional Accessory:

Part Description	Part Number (P/N)	Part description	Part Number (P/N)
3m, Optical patch cord(APC)	AC-FJC-03-FC/FC-APC	Optical Connector Cleaning Tape	AC-CLN-TAPE
50n, optical patch cord(APC)	AC-FJC-50-FC/FC-APC	Optical Connector Cleaning Stick	AC-CLN-STK
SC emitter connector	AC-CONN-SC-L	Ceramic core	AC-FRL-C
ST emitter connector	AC-CONN-ST-L	Toolkit soft bag	AC-PB-30
SC connector	AC-CONN-SC-P-1000	Luxury toolkit hard box	AC-PB-40
ST connector	AC-CONN-ST-P-1000		

