

PM-830-FTTX Optical power meter

Description:

The PM-830-FTTX optical power meter is designed for simultaneous measurement and display of all signals – voice, data and video. The tester can be used as portable power meter or as USB probe, part of testing workstation. The FTTX tester is also perfect for testing PON services during activation and maintenance. The memory capacity allows storage and uploading of up to 2000 measurements. The stored data can be easily exported to Excel, Word or any other application.

Two versions of PM-830-FTTX meter available:

Single port:

The version with one input port - designed for measurement at end sides of optical lines, it requires disconnection the active device from the optical lines for measurements.

Dual port:

The version with two optical ports - the dual port tester with IN/OUT optical ports allows measurements of uninterrupted optical lines with the connected active device, pass-through testing mode. The PM-830-G1 tester is optimized for testing of standards GEAPON (Gigabit EPON) and GPON, transmission speed upstream up to 1.25 Gbps. The 1310 nm channel provides correct power measurements of burst type upstream PON signals

The changeable connector/adaptor design allows the simple exchange of optical PC or APC connectors (FC, SC) and easy cleaning of the output connector ferrule after removing the connector adaptor. LC/PC and LC/APC are also available.



Features:

- FTTH-PON testing
- Three simultaneously measured wavelengths
- Pass-through testing
- Absolute and Relative optical power measurement
- Large memory capacity for storing measured data
- USB port
- USB probe mode - full control via simple commands
- Rechargeable Li-Pol battery
- Battery status indicator
- Auto Off

Standard accessories:

- Power meter
- Traceable calibration certificate
- FC or SC adapter (can be customized)
- USB connection cable
- Power charging adaptor
- Hard carrying case TE-HC-03

Specifications:

Photodetector	3x InGaAs	
Working wavelength	1310, 1490, 1550 nm	
Spectral passband	1250-1360, 1430-1500, 1530-1650 nm	other passband width – on request
Isolation (dB)	1550->1490: 35 dB	1490->1310: 50 dB 1310->1490: 60 dB
	1550->1310: 55 dB	1490->1550: 45 dB 1310->1550: 40 dB
Pass-through IL	1.5 dB typ., 2.0 max (1550 nm)	dual port
RL	≥ 50 dB	UPC polished connectors
Uncertainty	± 12 %	typ., @ -10 dBm
Resolution	0.1	
Dynamic range: single port	-45 dBm to +10 dBm	CW: 1310,1490,1550 nm
dual port	-45/-20 dBm to +10 dBm	CW/burst: 1310, CW: 1490 nm
	-35 dBm to +20 dBm	1550 nm
Dimensions	165 x 80 x 40 mm	
Weight	250 g	with battery
Operating temperature	-10 to +50 °C	
Battery working time	> 150 hrs	backlight off
Battery life time	> 2 years	3000 mAh Li-Pol

Note:

Application:

- FTTX optical networks measurements
- PON optical networks measurements

Ordering Code:

PM-830(D)		-	XX	-	XX	-	G1
Ferrule style							
P2	2.5/PC						
A2	2.5/APC						
PM-830 Single port type							
PM-830D Dual port type							
		Adaptor					
		Combined with					
		SC P2,A2					
		FC P2,A2					
		ST P2					
		NC P2,A2, no connectors					
		LC ¹ Fixed Duplex Adaptor					
		NLC ¹ Fixed Duplex Adaptor					
		1.25 Gbps upstream GEAPON, GPON optimized					

Note: 1) LC type – fixed adaptor, not removable
Other interface on request

Typical configuration

Single port power meter:

PM-830-P2-FC FC/UPC optical interface
PM-830-P2-SC SC/UPC optical interface

Dual port power meter:

PM-830D-P2-FC-G1 Two FC/UPC optical ports
PM-830D-LC-G1 Duplex LC/UPC optical port

Standard accessories



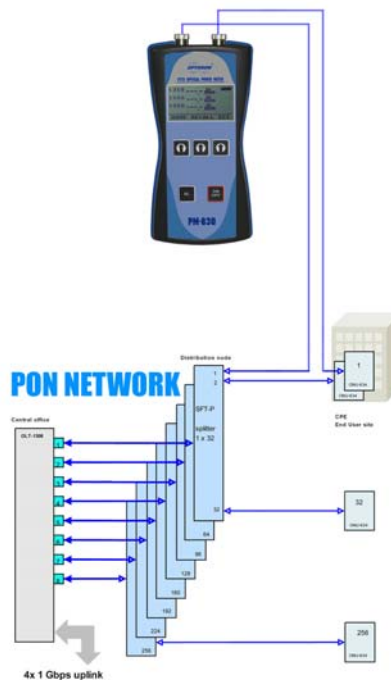
TE-HC-03
hard case for one or two testers

Dual port



PM-830D-P2-FC-G1

Typical application



Compliant with RoHS-requirements (2002/95/EG, 27.01.2003)

METHOD AND TECHNOLOGY PROTECTED BY US PATENT 7,187,861, RUSSIAN FEDERATION PATENT RU 2345490, AND PENDING APPLICATIONS IN OTHER COUNTRIES