



TC 98 PON POWER METER

(OPTIONAL OPTICAL POWER METER AND VFL)



I. INTRODUCTION

TC-98 PON Power Meter is specially designed for PON network construction and maintenance which can be connected between OLT and ONT. The voice, data, video signal (1310/1490/1550) online can be measured synchronously and optical power value (1310/1490/1550) can be displayed with this meter. It's a useful site test tool for the engineers of PON network and maintenance operators.

This PON Power Meter also integrates optional optical power meter and VFL functions.

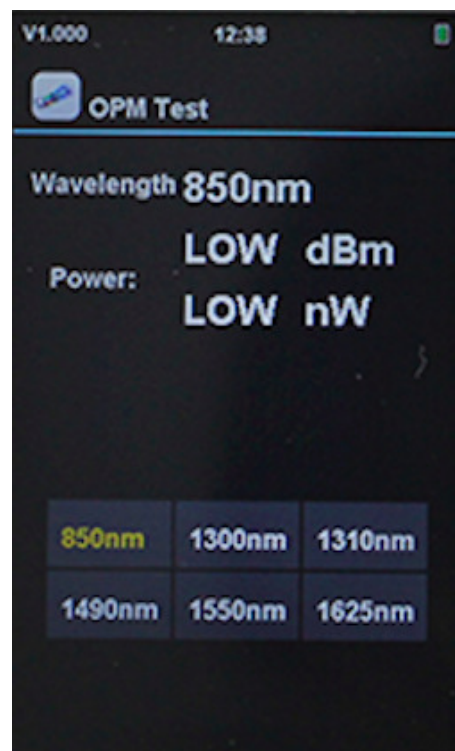
II - MAIN FEATURES

- Handheld, easy to operate
- Can test 3 wavelengths' power of PON system synchronously: 1310nm, 1490nm, 1550nm,
- Can test the burst mode signal of 1310nm
- Optional optical power meter and VFL functions
- True color screen
- Friendly operation interface, human message management and operation function
- Supply 10 groups of threshold values for operator's choice, analyze and display pass and fail status
- Relative value choice and edit function
- Can save 1000 records and upload the records through USB to management software
- Can set the threshold value, upload data, and calibrate wavelength through management software
- Auto shut off (according to set value)
- Auto backlight off (according to set value)
- 6600mAh Lithium battery
- Power saving design (low voltage self check and power off)
- Real-time clock display

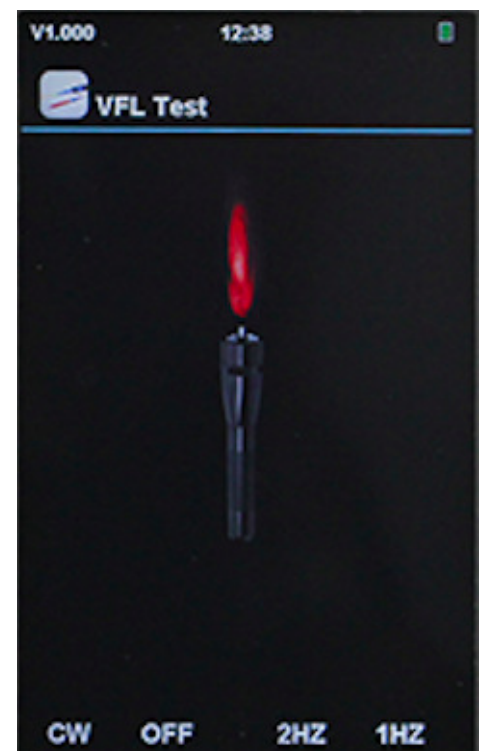
III - TEST INTERFACE



PON POWER TEST



OPTICAL POWER TEST

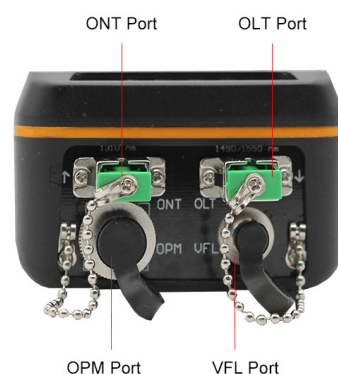


VFL TEST

IV. SPECIFICATIONS

PON Power Meter			
Standard Wavelengths	1310 (Upstream)	1490 (Downstream)	1550 (Downstream)
Pass Zone (nm)	1260~1360	1470~1505	1535~1570
Range (dBm)	-50~+10	-50~+10	-40~+20
Isolation @1310nm (dB)		>40	>40
Isolation @1490nm (dB)	>40		>40
Isolation @1550nm (dB)	>40	>40	
Accuracy			
Uncertainty (dB)	±0.5		
Polarization Dependent Loss (dB)	<±0.25		
Linearity (dB)	±0.1		
Through Insertion Loss (dB)	<1.5		
Resolution (dB)	0.01		
Unit	dBm/xW		
Optical Power Meter (Optional)			
Calibrated Wavelength (nm)	850/1300/1310/1490/1550/1625		
Measurement Range (dBm)	-70~+10 or -50~+26		
Detector	InGaAs		
Accuracy	<±3% (-10dBm, 22 °C)		
Resolution	Linearity: 0.1%; Non-linearity: 0.01dBm		
Connector	SC/FC/ST		
Visual Fault Locator (Optional)			
Output Power (mw)	1		
Test Distance (km)	5km		
Wavelength (nm)	650 ± 20		
Output Modes	Continuous (CW), 2Hz pulsed		
General Specification			
LCD	480*800, True color touch screen		
Battery	3.7V 6600mAH rechargeable Lithium battery		
Working Temperature	-10~60°C		
Storage Temperature	-25~70°C		
Dimensions (mm)	185*80*50		

V. PORTS



V. PACKAGING



PON Power Meter



Carry Case



Battery charger



Charging Cable

CD (Management
Software)

USB Cable



Factory Test Report

VII. ORDERING INFORMATION

CONFIGURATION	ORDERING CODE	FUNCTION	NOTE
PON Power Meter (SC/PC Connector)	TC-98A	Basic PON Power Meter with SC/PC Connector	Basic/Standard (Please choose one between TC-98A and TC-98B)
PON Power Meter (SC/APC Connector)	TC-98B	Basic PON Power Meter with SC/APC Connector	
1mw VFL+Optical Power Meter (-70 ~ +10dB)	O	1mw VFL + Optional Power Meter with -70~+10dB Measurement Range	Optional Module (Please choose one between O and P)
1mw VFL+Optical Power Meter (-50 ~ +26dB)	P	1mw VFL + Optional Power Meter with -50~+26dB Measurement Range	

For Example:

If you need TC-98 PON Power Meter with SC/APC connector and Optical Power Meter (-50~+26dB)+ 1mw VFL function, the ordering code will be **TC-98B-P**.



Test Srl

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