



I. INTRODUCTION

YX-TOL-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

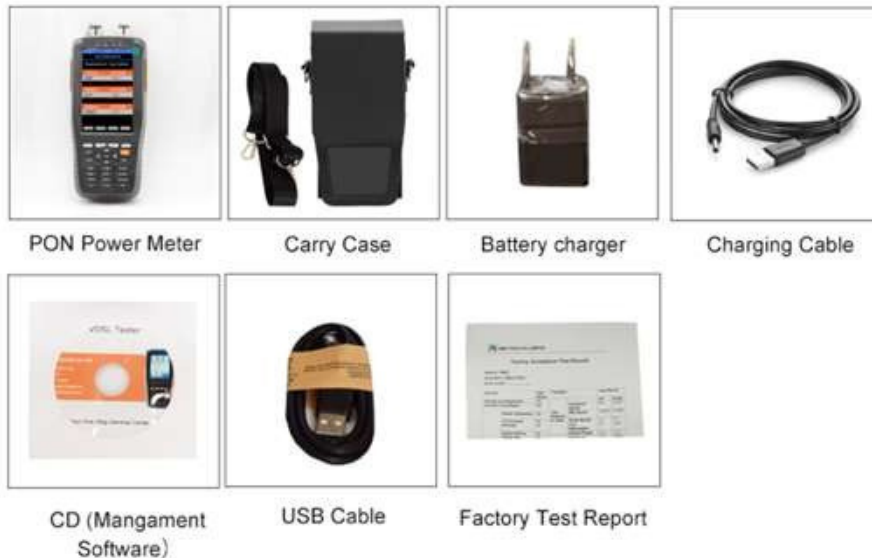
PON <u>Power Meter</u>			
Standard Wavelengths	1310 (Upstream)	1490 (Downstream)	1550 (Downstream)
Pass Zone (nm)	1260~1360	1470~1505	1535~1570
Range (dBm)	-50~+10	-50~+10	-40~+20
Isolation @1310nm (dB)		>40	>40
Isolation @1490nm (dB)	>40		>40
Isolation @1550nm (dB)	>40	>40	
Accuracy			
Uncertainty (dB)	±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	$\pm 3\%$ (-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 $\pm$ 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



VI. PACKAGING



VII. ORDERING INFORMATION

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