



ST805C PON Power Meter



I. Overview

ST805C PON Power Meter is specifically designed for the PON network construction and maintenance. It's a useful site test tool for the engineers and maintenance operators of PON network of FTTX.

It can perform in-service testing of all PON signals (1310/1490/1550nm) on any spot of the network. Pass/fail analysis is conveniently realized through users' adjustable threshold of every wavelength.

Adopting 32 digits CPU with low power consumption, ST805C becomes more powerful

and rapid. More convenient measurement owes to friendly operation interface.

II. Key Features

- Test 3 wavelengths' power of PON system synchronously: 1490nm, 1550nm, 1310nm
- Suitable for all PON network (APON, BPON, GPON, EPON)
- User-defined Threshold Sets
- Supply 3 groups of threshold values; analyze and display pass/fail status
- Relative value (differential loss)
- Save and upload the records to computer
- Set threshold value, upload data, and calibrate wavelength through management software
- 32 digits CPU, easy to operate, simple and convenient
- Auto power off, auto backlight off, low voltage power off
- Cost efficient palm size designed for field and lab testing
- Easy-to-use interface with large display for easy visibility

III. Main functions

- 3 wavelengths' power of PON system synchronously: 1490nm, 1550nm, 1310nm
- test the burst mode signal of 1310nm
- Threshold value setting function
- Data storage function
- Auto backlight off function
- Display the voltage of battery
- Power off automatically when it is in low voltage
- Real-time clock display

IV. Specifications

Wavelength			
Standard wavelengths	1310	1490	1550

	(upstream)	(downstream)	(downstream)
Pass zone(nm)	1260~1360	1470~1505	1535~1570
Range(dBm)	-40~+10	-45~+10	-45~+23
Isolation @ 1310nm(dB)		>40	>40
Isolation @ 1490nm(dB)	>40		>40
Isolation @ 1550nm(dB)	>40	>40	

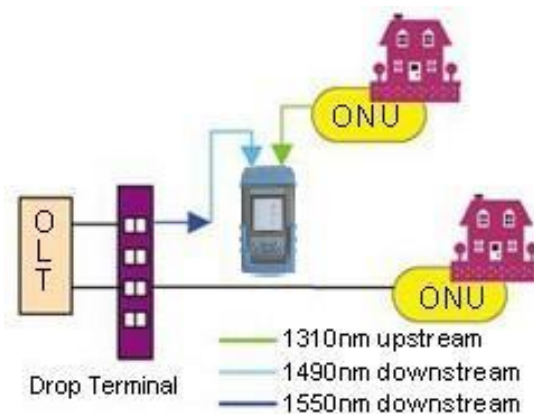
Accuracy

Uncertainty(dB)	±0.5
Polarization Dependent Loss (dB)	<±0.25
Linearity(dB)	±0.1
Through Insertion Loss(dB)	<1.5
Resolution	0.01dB
Unit	dBm / xW

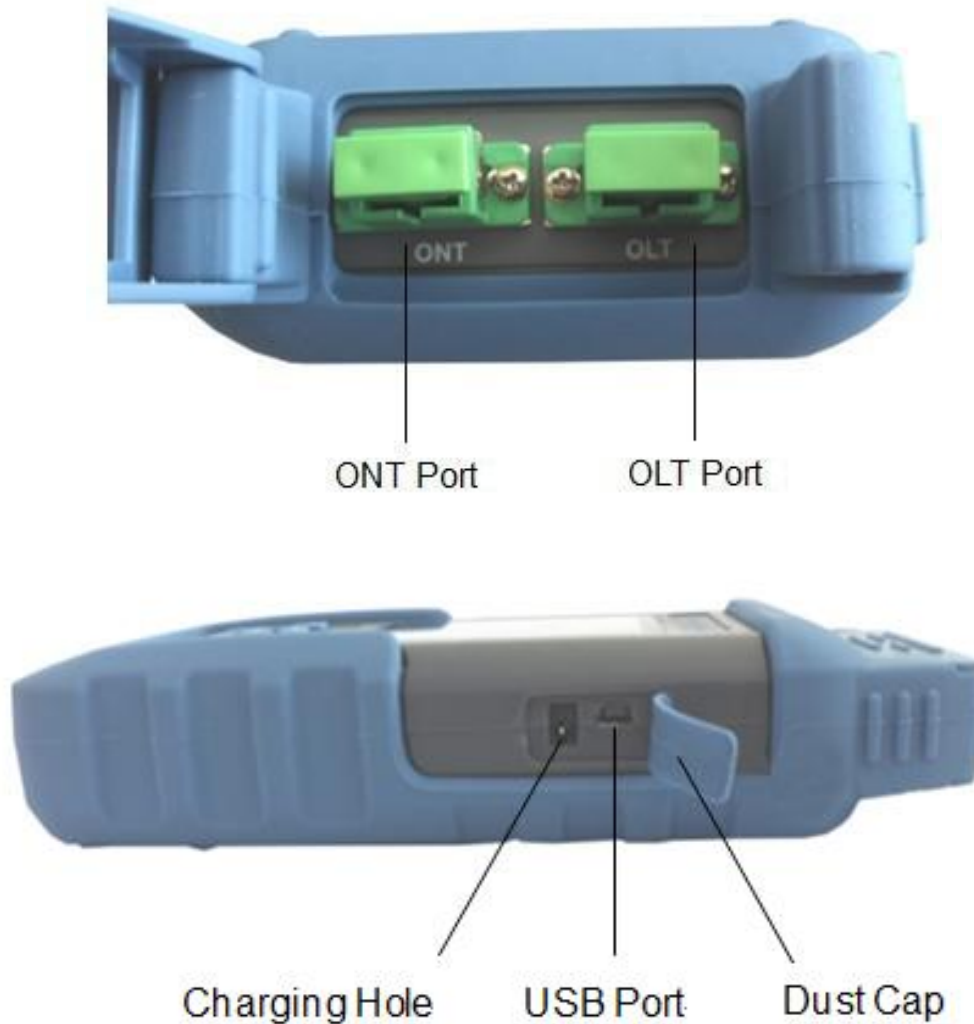
General Specifications

Storage number	99 items
Auto backlight off time	30 seconds without any operation
Auto power off time	10 minutes without any operation
Battery	7.4V 1000mAH rechargeable Lithium battery or dry battery
Continuous working	18 hours for Lithium battery; about 18 hours for dry battery too, but different for different battery brands
Working temperature	-10~60°C
Storage Temperature	-25~70°C
Dimension (mm)	200*90*43
Weight (g)	About 330

V.Flexible Connection



VI. Ports



VII. Ordering Information

Items	Name	Quantity
1	ST805C PON Power	1
2	SC/SC Jumper Wire	1
3	Charger (for rechargeable battery)	1
4	USB Line	1
5	Management Software CD	1
6	User Manual	1

7	BB-002 Clean Cotton Stick	1 pack
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Please choose the proper sub model from following:

ST805C	Connector	Battery
ST805C-A	SC/APC	Dry AA battery
ST805C -B	SC/APC	Li-ion rechargeable battery
ST805C -C	SC/PC	Dry AA battery
ST805C -D	SC/PC	Li-ion rechargeable battery

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