

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 (upstream)	1490 (downstream)	1550 (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 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 330gr		