

PON Power Meter

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Variants

DT-19

Details

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Product Description

PON Power Meter (PON test instrument) is specially designed for PON network construction and maintenance. It can be connected between OLT and ONT. The voice, data, and video signals (1310 / 1490 / 1550 nm) can be measured online synchronously, and the optical power values at 1310 / 1490 / 1550 nm can be displayed on the meter. It is a useful site test tool for engineers working on PON network installation and maintenance.

Main Features

1	Handheld design, easy to operate
2	Simultaneous testing of 3 PON wavelengths: 1310 nm, 1490 nm, 1550 nm
3	Supports burst mode signal testing at 1310 nm
4	True color screen
5	Friendly user interface with message management and operation functions
6	Provides 10 groups of threshold values for pass/fail analysis
7	Relative value selection and edit function

8	Threshold setting, data upload, and wavelength calibration through management software
9	Auto shut-off according to set value
10	Auto backlight off according to set value
11	6600mAh lithium battery
12	Power-saving design with low voltage self-check and power off
13	Real-time clock display

1310 nm Upstream Measurement

Pass Zone (nm)	1260 nm ~ 1360 nm
Measurement Range (dBm)	-35 dBm ~ +10 dBm
Output Power (max)	15 dBm
Isolation @1490/1550 (dB)	> 40 dB
Burst Mode Measurement Error	< ±0.5 dB

1490 nm Downstream Measurement

Pass Zone (nm)	1470 nm ~ 1505 nm
Measurement Range (dBm)	-35 dBm ~ +10 dBm
Output Power (max)	15 dBm
Isolation @1310/1550 (dB)	> 40 dB

1550 nm Downstream Measurement

Pass Zone (nm)	1535 nm ~ 1570 nm
Measurement Range (dBm)	-35 dBm ~ +10 dBm
Output Power (max)	15 dBm
Isolation @1310/1490 (dB)	> 40 dB

Measurement Accuracy

Connatural Uncertainty (dB)	±0.5 dB
Linearity (dB)	±0.1 dB
Passing Through Insertion Loss (dB)	< 1.5 dB

General Information

Detector Type	InGaAs
Optical Connector	FC / SC / ST Interchangeable, 2.5 Universal Adapter
Fiber Type	SM 9/125 ?m
Measurement Unit	dB / dBm / xW
Resolution (dB)	0.01 dB
Operation Voltage (V)	DC 3.3V ~ 5.5V
Power Supply	3 × 1.5V Battery
Continuous Operation Time	PON: 90 h / OPM: 100 h / VFL: 50 h
Operation Temperature (°C)	-10°C ~ 60°C
Storage Temperature (°C)	-25°C ~ 70°C
Dimension	23.5 × 16 × 8 cm
Weight	0.65 kg