PON Power Meter

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Variants

DT-19

Details

The **PON Power Meter** is specially designed for GPON, EPON, and FTTH network construction and maintenance. It allows simultaneous online measurement of **1310nm, 1490nm, and 1550nm** optical signals between the OLT and ONT without interrupting service.

This handheld tester provides accurate power measurement, pass/fail analysis, threshold management, burst mode testing, and long battery backup, making it an essential tool for fiber technicians and ISP engineers.

PON Wavelengths **1310/1490/1550**
Measurement Range **-50 ~ +26 dBm**
Battery

6600mAh

Continuous Use

Up To 100h

Key Features

? Simultaneous 1310nm / 1490nm / 1550nm Measurement

? Burst Mode Testing for 1310nm Upstream Signal

? True Color LCD Display

? Pass / Fail Analysis Function

? 10 Groups of Threshold Settings

? Data Upload & Management Software Support

? Automatic Power Saving Functions

? Real-Time Clock Display

PON Measurement Specifications

Parameter	1310nm Upstream	1490nm Downstream	1550nm Downstream
Pass Zone	1260 ~ 1360nm	1470 ~ 1505nm	1535 ~ 1570nm

Parameter	1310nm Upstream	1490nm Downstream	1550nm Downstream
Measurement Range	-35 ~ +10 dBm	-35 ~ +10 dBm	-35 ~ +10 dBm
Maximum Power	15 dBm	15 dBm	15 dBm
Isolation	>40 dB	>40 dB	>40 dB

Measurement Accuracy

Parameter	Specification
Connatural Uncertainty	±0.5 dB
Linearity	±0.1 dB
Insertion Loss	1.5 dB
Burst Mode Error	±0.5 dB

General Specifications

Parameter	Specification
Detector Type	InGaAs
Optical Connector	FC / SC / ST Interchangeable (2.5mm Universal)
Fiber Type	Single Mode 9/125?m
Measurement Unit	dB / dBm / xW
Resolution	0.01 dB

Parameter	Specification
Operation Voltage	DC 3.3V ~ 5.5V
Power Supply	3 × 1.5V Battery
Battery Backup	PON: 90h • OPM: 100h • VFL: 50h
Operating Temperature	-10°C ~ +60°C
Storage Temperature	-25°C ~ +70°C
Dimensions	23.5 × 16 × 8 cm
Weight	0.65 kg

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