OPM-50 Intelligent Optical Power Meter

Product Overview

The OPM-50 Intelligent Optical Power Meter offers accurate fibre optic testing with automatic wavelength identification, remote reference value setting, and FTTx compatibility. It is compact and user-friendly and features a 70-hour battery life, USB connectivity, and memory for up to 1,000 test records.

Features and Benefits

➤ Automatic wavelength identification
➤ Remote reference value setting
➤ FTTx applicable
➤ Internal clock & fibre S/N editable
➤ Memory of 1000 test records
➤ Data Transfer to PC via USB
➤ USB power charging
➤ No warm-up, quick start
➤ Backlight
➤ 70 hours of continuous operation
➤ Pocket size, lightweight and easy to use
➤ CE FCC certificates

OPM-50 paired with SLS-50 Intelligent Stabilized Laser Source can be used to identify fibre, measure attenuation and loss, verify continuity and evaluate fibre link transmission quality.

➤ **Automatic Wavelength Identification**
Compatible with the digital encryption protocols of SLS-50, OPM-50 can automatically identify the wavelength of the optical signals transmitted from SLS-50 and switch to the corresponding test mode, which greatly reduces the workload at both ends and avoids potential error.

➤ **Remote Reference Value Setting**
OPM-50 can receive the power parameters of the digital-encrypted signal transmitted from SLS-50 as a reference for precise link loss measurement even when the two units are far apart.

➤ **Internal Clock & Fibre S/N Editable**
Internal clock enables OPM-50 to save test data with time and editable fibre SN information.

➤ **Compatible with FTTx Test**
OPM-50 can measure Triple-play signals (1310nm, 1490nm and 1550nm) on a Passive Optical Network (PON).

FRAME communications

Specifications

MODEL	OPM-50	
	A	**B**
Calibrated Wavelength(1)	850,1300,1310,1490,1550,1625nm	
Power Range (dBm)(2)	-70 ~ +10	-50 ~ +27
fibre Type	Singlemode/Multimode fibres	
Detector Type	InGaAs	
Accuracy	± 5% ± 0.01nW ; (±0.5dB@850nm)	± 5% ± 1nW ; ±0.5dB@850nm)
Resolution (dB)	0.01	
MOD Identification	270, 1K, 2K Hz	
Auto Wavelength Identification	Yes (With SLS-50)	
Display Unit	W/mW/µ W/nW/pW/dBm/dB(REF)	
Data Storage	1000 records	
Connectivity	USB	
Connector	FC (Interchangeable SC/ST)	
Power Supply	Lithium Battery/ AC Adapter	
Battery Life	Continuous operation: 70 hours	
Power Saving	Auto-off after 5 minutes idle	
Operating Temperature	0°C ~ 50°C (32 ~ 122 F)	
Storage Temperature	-20°C ~ 70°C (-4 ~ 158 F)	
Relative Humidity	0 ~ 95% (Non-condensing)	
Weight	315g (0.69 lbs)	
Dimensions (H × W × T)	177×80×44mm (6.97×3.15×1.73 inch)	

* Specifications subject to change without notice

Note:
(1) Other wavelengths are open for customisation;
(2) For Model A at 850nm, the lower limit of measurement range is -60 dBm (Model A) / -40dBm (Model B);

Ordering Information

Standard Package Includes:
OPM-50, Lithium battery, AC adapter, USB cable, OPM data analysis software CD, Soft carrying case, Warranty card, CE certificate, Certificate of calibration, and User manual.