

FHP2 Series Optical Power Meter



Fig.: FHP2 Series Optical Power Meter

Description:

FHP2 Series Optical Power Meter is the advanced version of OPM series. It is more functional and intelligent.

Under the situation of laboratory, LANs, WANs and CATV as well as long distance optical network, Optical Power Meters, together with Grandway's Stabilized Optical Laser Sources, can be used to identify optical fiber, measure optical attenuation, verify continuity and evaluate fiber link transmission quality.

Auto-wavelengths Recognition(TWIN function):

FHS2DUO Optical Laser Source can transmit with a wavelength identification digital encrypted protocol, enabling FHP2 Series Optical Power Meter to automatically switch to the proper calibration wavelength. This feature reduces the need for communication between the two technicians and decreases the possibility of making mistakes.

Referencing Function:

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

Computer Supported:

Enables data transfer to a PC via USB connection. With the software, the datasheet can be saved as excel or txt, and print out directly.

Testing Range:

Maximum testing range up to 150km (when using Grandway's FHS2DUO Optical Laser Source with Grandway's FHP2A04V2 Optical Power Meter).

Feature:

1. Integrated with high performance optical detector
2. LCD backlight for easy operation in darker environments
3. Two powering systems: internal rechargeable batteries or AC adaptor
4. Wide dynamic range and high power measurement capability
5. High accuracy and stabilized
6. Auto-off function: saves the power and low power consumption allows extended operation in the field
7. Recommended calibration interval
8. Automatic diagnostic system is available
9. With reference function (REF button)

Specification:

Model	FHP-2A04V2	FHP-2B04V2
Calibrated Wavelength	850/1300/1310/1490/1550/1625nm	
Wavelength Range	800-1700 nm	
Industry Standards	IEC61326	
Detector Type	InGaAs	
Display Unit	dB, dBm, mw, uw	
Max. Power Level	+15 dBm	
Accuracy	±0.2dB±1nW	±0.2dB±10nW
Resolution	0.01 dB/ 0.001 uw	
Linearity	± 0.06 dB from 5 to -50 dBm	
Auto Power-off	20 mins no operation	

Back-light	Yes	
Reference Value	Yes	
Connector	Universal interchangeable FC/PC, SC/PC,easy to clean	
Measuring Range	-70 to +10dBm	-50 to +26dBm
USB Interface	Yes	
Wavelength Recognition	Yes ($\geq -40\text{dBm}$)	Yes ($\geq -20\text{dBm}$)
Tone Detection	270, 1k, 2kHz ($\geq -40\text{dBm}$)	270, 1k, 2kHz ($\geq -20\text{dBm}$)
Screen Size	2.5inches diagonal, 54mm*37mm	
Operating Temperature	-10 to +50°C	
Storage Temperature	-20 to +70°C	
Power supply	2pcs*Ni-MH AA (2700mAh); USB cable,AC line, Dry cells	
Operating Time	Up to 100 hrs(backlight off)	
Charging Time	< 2 hrs	
Dimension	160L*76W*45H (mm)	
Net Weight	270g	
Standard Accessories:		
FC/PC adapter, SC/PC adapter, 2*AA rechargeable batteries, USB cable, test report, carrying bag, battery charger, CD software(Windows based PC compatible software for printing, viewing and analyzing of measured data), user manual.		
Optional Accessories:		
interchangeable ST/E2000 adapter (model: N000500); male FC to female LC adapter for LC (1.25mm) connector (model: HD078)		