

SMARTFiber Pro

Fiber Optic Power Meter for Wavelength 850/1300/1310/1490/1550/1625

The Optical Power Meter is a high accuracy optical power measurement tool. It tests dynamic range of optical power from +3 to -60dBm with six calibrated wavelengths: 850nm, 1300nm, 1310nm, 1490nm, 1550nm and 1625nm.

With Hobbes Optical Power Meter, it displays a pass or fail result according to the threshold the user has defined. It also has the capability to identify modulate signals (270Hz, 1KHz, 2KHz) simultaneously by the power source for identification purposes. For fast and easy operation in testing the corresponding wavelengths, we recommend the Hobbes optical light source (OPTIsource) as a complete instrument in auto-identifying wavelength of optical power source.

It utilizes an InGaAs detector for an improved sensitivity and temperature stability. It also has the capacity to record up to 1000 test data that is up-loadable to a PC via USB connection for easy and convenient report purposes.

Features

- Portable, high accuracy and dynamic power meter
- Calibrated at 850nm, 1300nm, 1310nm, 1490nm, 1550nm and 1625nm
- Relative and absolute power display
- With self-calibrated ZERO function
- Ideal for both multi-mode and single-mode optical fibers
- Identify modulate signals (270Hz, 1KHz, 2KHz) for identification purposes
- Automatic wavelength switching
- Optional adapter to test both 2.5mm/1.25mm fiber cables
- Battery low indicator and auto power shut off
- 1000 data item storing and uploading
- Pass/fail indication by user-defined threshold



Test report



FiberID	Serial Num...	Wave length	Data	Unit	Ref	PASS/FAIL
FIB1	1	850	0.00	dBm		
FIB1	2	850	0.00	dBm		
FIB1	3	850	-1.82	dBm		
FIB1	5	850	0.86	dB	-23.99	
FIB1	6	850	-23.03	dBm	-23.99	

Specifications

- Sensor type: InGaAs
- Wavelength: 850nm, 1300nm, 1310nm, 1490nm, 1550nm and 1625nm
- Dynamic range: +3 to -60dBm
- Accuracy: $\pm 0.15\text{dB} \pm 1\text{nw}$ @1300nm/1310nm/1490nm/1550nm;
 $\pm 0.25\text{dB} \pm 1\text{nw}$ @850nm/1625nm
- Resolution: 0.01dBm
- Unit: dBm, Watt, dB
- Fiber connector: interchangeable adaptor for FC, ST and SC
- Battery: AA battery x 4 (6V)
- Dimension: 202.8 x 107 x 64.5mm
- Weight: Around 550g (without battery)

Order Information

257835Pro Fiber Optic power meter for wavelength 850nm/1300nm/
1310nm/1490nm/1550nm/1625nm

Key Definition

Marking	Name	Function
On/Off (cancel)	Power button Cancel button	1. Press the button for a few seconds to power the unit "on" or "off". 2. When the power is on, press the button to activate or deactivate auto off function. 3. Cancel setting button, return to test mode.
Mode (backlight)	1. Mode button 2. Backlight button	1. 6 Selection Modes: TEST (default mode) RECO/BROW/SET/ZERO/LIMIT Mode. 2. Press the button for a few seconds to activate or deactivate the backlight.
λ	Wavelength selection button	Wavelength selection for 850nm, 1300nm, 1310nm, 1490nm, 1550nm and 1625nm
dBm/w	Unit selection button	Optical power measurement in dB, dBm, watt
Up	Increase the number	Increase the number or letters
Down	Decrease the number	Decrease the number or letters
Enter (save/edit)	Key operation (execution)	Selection or execution