

JWD1000 Min Series Optical Power Meter

JWD1000 Min Series Power Meter equips with wide angle detector, replaceable attenuator and various fiber adapters, which can be connected directly with the computer with USB or RS232 communication port. It is an intelligent but economical test device and **very suitable for optical power measurements from Passive Components Producers, Research Lab and University Lab.**



Various optical fiber adapters and attenuation chips can be used upon actual requirements.

Product Features

- **Wide angle Si、Ge detectors can be alternative**
The JWD 1000 min series OPM can support the detector size up to 5mm for Ge detector and 10mm for Si detector. The measurement wavelength range is from 400~1100nm for Si detector and 800~1600 for Ge detector, with dynamic ranger of 60dB.
- **Compensation of the detector temperature**
JWD1000min series OPM can calibrate the value of the testing result trough the detector temperature compensation; this will lessen the reading value offset caused by the external temperature change
- **Various Optical Fiber Adaptors can be required**
JWD1000min series OPM provide the FC, SC, ST, LC and other kind of changeable optical fiber adaptors, can adapt for all kinds of the need of the optical fiber connection.
- **User-self Calibration Function**
Any wavelength can be calibrated by user independently (up to 9 wavelengths calibration can be supported). The device do not need to send back to the original factory for recalibration, it can be deal with in the local Measurement Bureau for the annually calibration.
- **Attenuation Chips can be changeable**
JWD1000min series OPM support 10,100 and 1000 absorbability attenuation chips, for the convenience of users' variable attenuation requirements.
- **WIN32 API Support**
JWD1000 min series OPM provide various API ports based on WIN32, so that the user can develop its own software according to its actual requirements, which includes:
 - 1) **Data Reading**
Read the current wavelength power value (also can customize the relative log, absolute log, and linearity), also can read the detector temperature
 - 2) **Calibration**
Calibrate the current wavelength, zero calibration, and adjust the compensation temperature
 - 3) **Setting**
Setting the wavelength, Setting the measurements mode (manual, Auto), Setting the ranger, Setting the filter speed, Setting Units, Setting the reference value

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Product Specifications

Model	JWD1000 mini Series OPM
Wavelength (nm)	400~1100(Si); 800~1600(Ge)
Pre-determined calibrated wavelength (nm)	850/980/1300/1310/1490/1550/1625 (Ge Detector); 660/780/820/850 (Si Detector)
Self-calibration wavelength qty	9 Max
Uncertainty (Full rang)	5%
Dynamic Rang (dB)	70
Unit	Linear: nw、uw、mw、w Log: dB、dBm
Displaying speed (Data average)	SLOW: 960ms (16 times on average) MEDIUM: 480ms (8 times on average) FAST: 60ms (uneven)
Resolution	0.001
Communication Port	Standard RS232 Port or USB port
Cable length	1.5m (Standard) or Customized
Operation temperature (°C)	+10~+40
Storage temperature(°C)	- 20~+60
AC adaptor	9V DC/RS232 or supply by USB cable
Warm-up time	20Min.
Weight(kg)	<200g
Dimensions(mm)	ø45×40

Ordering Information

Model	JWD1000-A-B-C-D-E mini Power Meter
Detector Type (A)	1) 3mm Ge -60~0dBm 2) 5mm Ge -60~0dBm 3) 5mm Si -60~0dBm 4) 10mm Si -60~0dBm
Communication port (B)	1) RS232 2) USB
Cable Length (C)	1) 2m (Standard) 2) 5m (Optional)
Attenuator type (D)	1) 10 time absorbability attenuation chips (+10~-60dBm) 2) 100 time absorbability attenuation chips (+20~-50dBm) 3) 1000 time absorbability attenuation chips (+30~-40dBm)
Adaptor Type (E)	1) FC 2) SC 3) ST 4) LC 5) Bare Fiber

Remark: 1、 Each attenuation chip is unique relative to the detector.

2、 Extra calibration service can be optional on customer requirements

Standard Packages

Model	include
JWD1000 mini series Optical Power Meter	Main Unit, RS232 communication cable, FC Adaptor, A piece of Attenuator, AC adaptor, Software CD, Cotton swabs, User manual.