

## PON Optical Power Meter Datasheet

### POPM4001



POPM4001 Series PON Optical Power Meter target at the FTTx application and maintenance. This power meter is able to simultaneously test and estimate the signals of the voice, data and video. It is an essential and ideal tool for the construction and maintenance of the PON projects.

#### Key Features

- ◆ Providing simultaneous measurement for all three wavelengths on the fiber (1490nm, 1550nm, 1310nm).
- ◆ USB communication port enables data transfer to a PC. 1000 measurement items can be saved in OPM1001 PON power meter or computer for data review.
- ◆ Offers up to 10 different threshold sets in total, three status LEDs represent different optical signal conditions of Pass, Warn and Fail respectively.
- ◆ Optional Chinese/English display.

#### Product Annotation

- 1- Panel
- 2- Screen
- 3- OLT/Video downstream signal detection port
- 4- ONT upstream signal detection port



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## Specifications

### Technical Specifications

1310 Upstream Measurement	Pass Zone (nm)	1260 to 1360
	Measurement Range (dBm)	-35 to +10
	Output Power (dBm)	15 Max.
	Isolation@1490/1550 (dB)	40 Min.
	Burst Mode Measurement Error (dB)	±0.5
1490 Downstream Measurement	Pass Zone (nm)	1470 to 1505
	Measurement Range (dBm)	-40 to +12
	Output Power (dBm)	15 Max.
	Isolation@1490/1550 (dB)	40 Min.
1550 Downstream Measurement	Pass Zone (nm)	1540 to 1560
	Measurement Range (dBm)	-40 to +25
	Output Power (dBm)	25 Max.
	Isolation@1490/1550 (dB)	40 Min.
Measurement Accuracy	Connatural Uncertainty (dB)	±0.5
	Linearity (dB)	±0.1
	Passing Through Insertion Loss (dB)	1.5 Max.
General Information	Detector Type	InGaAs
	Optical Connector	FC/SC/ST Interchangeable/2.5 Universal Adapter
	Fiber Type	Single Mode
	Measurement Unit	dB/dBm/xW
	Resolution (dB)	0.01
	Calibration Wavelength (nm)	1310/1490/1550/1625
	Operation Voltage (V)	DC 3.3 to 5.5
	Power Supply	3 pcs 1.5V Battery
	Operation Temperature (°C)	-10 to 60
Storage Temperature (°C)	-25 to 70	

### Normal Optical Power Meter Module (Optional)

Connatural Uncertainty (dB)	±0.5
Linearity (dB)	±0.1
Measurement Range (dBm)	-70 to + 6
Measurement Unit	dB/dBm
Resolution (dB)	0.01
Calibration Wavelength (nm)	1310/1490/1550/1625
Detector Type	InGaAs
Optical Connector	FC/SC/ST Interchangeable/2.5 universal adapter

### VFL Module (Optional)

Output Power (mW)	0.5 Min.
Wavelength (nm)	650
Optical Connector	FC/SC/ST Interchangeable/2.5 universal adapter
Fiber Type	SM/MM



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### Packing Info

No.	Items	Quantity
1	POPM4001 Tester	1 pc
2	User Manual	1 pc
3	USB	1 pc
4	Soft CD	1 pc
5	1.5VAA Battery	3 pcs

