



PON Optical Power Meter

SP-OPM23/ SP-OPM23A/SP-OPM23AV/SP-OPM23AP



Shenzhen SPEEDWOLF Technology Co., Ltd.

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Overview

SP-OPM23 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.

Product Features

- It can experiment at Voice, data and video signal synchronous measurement and display on BPON/EPON/GPON.
- Providing simultaneous measurement for all three wavelengths on the fiber (1490nm, 1550nm,1310nm).
- Used in Burst mode measurement of 1310nm upstream.
- Use the software connect with PC, setting the threshold, data transfer, and calibration the wavelength.
- USB communication port enables data transfer to a PC.1000measurement items can be saved in OP-OPM23 PON power meter or computer for data review.
- With optical power meter modual, include 850、1300、1310、1490、1550、1625sixs(OP-OPM23AP, OP-OPM23A without 850nm wavelength) ; With visual fault locator modual (OP-OPM23and OP-OPM23AV)
- Optical power meter and VFL with one port. (only OP-OPM23A)
- Optional Chinese/English display.
- Offers up to 10 different threshold sets in total,Three status LEDs represent different optical signal conditions of Pass, Warn and Fail respectively.
- 10 minutes Auto-off function can be activated or deactivated
- Good key design,high sensitivity, greatly reducing the volume and weight of the tester.
- Different models corresponding to different function, according to own use to choose .

APPLICATIONS

- Maintenance in Telecom
- Maintenance CATV
- Fiber Optic Lab Testing

➤ Other Fiber Optic Measurements

Technical Parameters

PON module:	SP-OPM23	SP-OPM23A	SP-OPM23AV	SP-OPM23AP
1310 upstream measurement				
Pass Zone(nm)	1260nm~1360nm			
Measurement Range(dBm)	-40dBm~+10dBm			
Output power(max)	15dBm			
Isolation@1490/1550(dB)	>40dB			
Burst mode measurement error	<±0.5dB			
1490 downstream measurement				
Pass Zone(nm)	1470nm~1505nm			
Measurement Range(dBm)	-40dBm~+10dBm			
Output power(max)	15dBm			
Isolation@1310/1550(dB)	>40dB			
1550 downstream measurement				
Pass Zone(nm)	1535nm~1570nm			
Measurement Range(dBm)	-40dBm~+10dBm			
Output power(max)	25dBm			
Isolation@ (1310/1490nm)	>40dB			
Measurement Accuracy				
Connatural uncertainty(dB)	±0.5dB			
Linearity(dB)	±0.1dB			
Passing through insertion Loss(dB)	<1.5dB			
General Information				
Detector Type	InGaAs			
Optical Connector	FC/SC/ST Interchangeable/2.5 universal adapter			
Fiber Type	SM 9/125um			
Measurement Unit	dB/dBm/xW			
Resolution (dB)	0.01dB			
Operation Voltage(V)	DC 3.3V~5.5V			
Power Supply	3pc1.5V battery			
Continuously Operation time (h)	PON: 90h	PON: 90h OPM: 100h VFL: 50h	PON: 90h VFL: 50h	PON: 90h OPM: 100h
Operation Temperature(°C)	-10°C~60°C			
Storage temperature(°C)	-25°C~70°C			
Weight(kg)	423g	425g	424g	424g

Note: The operation time of the battery are all for the instrument that do not turn on back light, if the back light turn on the operation time will be shorted.

Normal Optical Power Meter

Normal Optical Power Meter	SP-OPM23 ^①	SP-OPM23A	SP-OPM23AP
Measurement Accuracy			
Connatural uncertainty(dB)	None	±0.5dB	
Linearity(dB)		±0.1dB	
Measurement Range(dBm)		-70dBm~+6dBm	
General Information			
Measurement Unit	None	dB/dBm	
Resolution (dB)		0.01dB	
Calibration Wavelength(nm)		1310/ 1490/1550/1625	1310/ 1490/1550/1625
Detector Type		InGaAs	
Optical Connector		FC/SC/ST Interchangeable/2.5 universal adapter	

① : SP-OPM23do not have the OPM module

VFL Module

VFL	SP-OPM23 ^②	SP-OPM23A	SP-OPM23AV
Output power	None	>0.5mW	
Wavelength		650nm	
Optical Connector		FC/SC/ST Interchangeable/2.5 universal adapter	
Fiber Type		SM/MM	

② : SP-OPM23 without VFL module.

Order Information

Model	Kit Include
SP-OPM23 SP-OPM23A SP-OPM23AV SP-OPM23AP	SP-OPM23 Series tester, User Manual, USB, Soft CD, 1.5VAA Battery

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by SPEEDWOLF before they become applicable to any particular order or contract. In accordance with the SPEEDWOLF policy of continuous improvement specifications may change without notice.

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