

HOPM-3213 Series
PON Optical Power Meter
Technical Specification

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1.0 PRODUCT DESCRIPTION

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.

2.0 PRODUCT FEATURE

- 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 PON power meter or computer for data review.
- With optical power meter module,include850, 1300, 1310, 1490, 1550、1625sixs(AP, Awithout850nmwavelength); With visual fault locator module(PON andAV)
- Optical power meter and VFL with one port.(onlyA)
- 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 .

3.0 Technical index

3.1 PON Module

PON Model	HOPM-3213	HOPM-3213A	HOPM-3213AV	HOPM-3213AP
1310nm upstream measurement				
Pass zone(nm)	1260~1360			
Measurement Range(dBm)	-40~+10			
Output power(max)(dBm)	15			
Isolation@1490/1550 (dB)	>40			
Burst mode measurement error(dB)	<±0.5			
1490 downstream measurement				
Pass zone(nm)	1470~1505			
Measurement Range(dBm)	-40~+10			
Output power(max)(dBm)	15			
Isolation@1310/1550 (dB)	>40			
1550 downstream measurement				
Pass zone(nm)	1535~1570			
Measurement Range(dBm)	-40~+10			
Output power(max)(dBm)	25			
Isolation@1310/1490 (dB)	>40			
Measurement Accuracy				
Connatural uncertainty (dB)	±0.5			

Linearity(dB)	±0.1			
Passing through insertion Loss(dB)	<1.5			
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)	0.01			
Operation Voltage(V)	DC 3.3V~5.5V			
Power Supply	3pc1.5V battery			
Continuously Operation time	PON: 90h	PON: 90h OPM: 100h VFL: 50h	PON: 90h VFL: 50h	PON: 90h OPM: 100h
Operation Temperature(°C)	-10~60			
Storage temperature(°C)	-25~70			
Weight(g)	423	425	424	424

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

3.2 Normal Optical Power Meter Module:

Normal Optical Power Meter	HOPM-3213 ¹⁾	HOPM-3213A	HOPM-3213AP
Measurement Accuracy			
Connatural uncertainty(dB)	None	±0.5	
Linearity(dB)		±0.1	
Measurement Range(dBm)		-70~+6	

General Information			
Measurement Unit	None	dB/dBm	
Resolution (dB)		0.01	
Calibration Wavelength(nm)		1300/1310/ 1490/1550/1625	850/1300/1310/ 1490/1550/1625
Detector Type		InGaAs	
Optical Connector		FC/SC/ST Interchangeable/2.5 universal adapter	

1): PON Optical Power Meter do not have the OPM module

3.3 VFL Module:

VFL	HOPM-3213 ¹⁾	HOPM-3213A	HOPM-3213AP
Output power (mW)	None	>0.5	
Wavelength (nm)		650	
Optical Connector		FC/SC/STInterchangeable/2.5 universal adapter	
Fiber Type		SM/MM	

1):PON Optical Power Meter without VFL module.