

### Overviews

HD4108P 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.



### Feature

- It can experiment at Voice, data and video signal synchronous measurement 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. 1000 measurement items can be

### Specification

Item	Specification			
	HD4108P	HD4108PV	HD4108PO	HD4108PVO
<b>1310 upstream measurement</b>				
Pass Zone (nm)	1260~1360nm			
Measurement Range (dBm)	15dBm			
Output power (max)	>40dB			
Isolation@1490/1550(dB)	± 0.15 dB			
Burst mode measurement error	<±0.5dB			
<b>1490 downstream measurement</b>				
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				
Continuously Operation time (h)	PON: 90h	PON: 90h VFL: 50h	PON: 90h OPM: 100h	PON: 90h VFL: 50h OPM: 100h
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			
Operation Temperature(°C)	-10°C~60°C			
Storage temperature(°C)	-25°C~70°C			

**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 (OPM)Optical Power Meter Module :

OPM	HD4108P	HD4108PV	3213PO	3213PVO
Measurement Accuracy				
Connatural uncertainty	None	±0.5dB		
Linearity		±0.1dB		
Measurement Range		-70dBm~+6dBm		
General Information				
Measurement Unit	None	dB/dBm		
Resolution		0.01dB		
Calibration Wavelength		1310/ 1490/1550/1625	1310/ 1490/1550/1625	
Detector Type		InGaAs		
Optical Connector		FC/SC/ST Interchangeable/2.5 universal adapter		

# HD4108P Series

## Fiber Optic Power Meter



### VFL Module :

VFL	HD4108P	HD4108O	HD4108PV	HD4108PVO
Measurement Accuracy				
Output Power	None			>0.5mW
Wavelength				650nm
Optical Connector				FC/SC/ST interchangeable /2.5 universal adapter
Fiber Type				SM/MM

### Order Information

Product	Item	Description
Optical Power Meter	HD4108P	PON Optical Power Meter , P type , OPM/VFL Optional



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