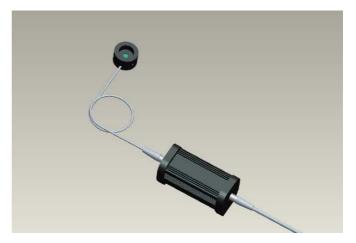
GM8012 + 2 X GM83004 Large Active Area Optical Power Meter

Technical Specifications V1.05 May, 2011







GM8012 + 2 X GM83004 Large Active Area Optical Power Meter

The GM8012 + 2 X GM83004 large active area optical power meter provides superior performance in testing DWDM components, AWG , WSS, OPM, PLC components, optical amplifiers, and performing other general-purpose fiber optical test and measurement applications. This meter is especially suitable to be used in the optical path adjustment due to its large PD active area and distinctive separate small PD head design. This is a special design for mass production line application.

GM8012 + 2 X GM83004 large active area optical power meter is a high performance, compact dimension, fast startup, affordable optical power meter test system. The system provides low / high power, single / dual channel optical power meter modules options. UC Instruments can also provide high channel count solution up to 16 channels.

Features

High accuracy
Wide dynamic power range
Fast startup
Varied power range and channel number options
Compact size
Competitive price

Applications

WSS, OPM optical path adjustment WDM, AWG, PLC components tests Insertion Loss, Return Loss Investigations Fiber sensor and fiber cable tests PMD and PDL measurements Fiber optical, telecom R&D lab tests

Specifications

Model #	GM8012 + GM83004	GM8012 + 2 X GM83004
Sensor Element	Single Channel InGaAs	Dual Channel InGaAs
Wavelength Range	850 ~ 1700 nm	
PD Active Area	3.0 mm X 4.0 mm	
Power Range	+ 3 ~ -65 dBm	
Application Fiber Type	Standard SM and MM up to 62.5 um core size	
Uncertainty (accuracy) at reference condition	+/- 4% (1200 nm ~ 1610 nm)	
Relative Uncertainty (accuracy) at reference condition	< 0.02 dB Typical	
Linearity (power)	<= +/- 0.06 dB (1200 nm ~ 1610 nm, + 0~ -60 dBm)	
Return Loss	> 40 dB	
Operation Temperature	0 \sim +40 $^{\circ}C$	
Storage Temperature	-30∼+80 ℃	
Recalibration Period	2 years	
Dimensions	200 mm H, 105 mm W, 250 mm D	
Weight	6.5 kg	

Model #	GM8012 + GM83005	GM8012 + 2 X GM83005
Sensor Element	Single Channel InGaAs	Dual Channel InGaAs
Wavelength Range	850 ~ 1700 nm	
PD Active Area	3.0 mm X 4.0 mm	
Power Range	+ 13 ~ -50 dBm	
Application Fiber Type	Standard SM and MM up to 62.5 um core size	
Uncertainty (accuracy) at reference condition	+/- 4% (1200 nm ~ 1610 nm)	
Relative Uncertainty (accuracy) at reference condition	< 0.02 dB Typical	
Linearity (power)	<= +/- 0.06 dB (1200 nm ~ 1610 nm, +20 ~ -40 dBm)	
Return Loss	> 40 dB	
Operation Temperature	0 \sim +40 $^{\circ}\mathrm{C}$	
Storage Temperature	-30∼+80 ℃	
Recalibration Period	2 years	
Dimensions	200 mm H, 105 mm W, 250 mm D	
Weight	6.5 kg	

UC INSTRUMENTS' Test and Measurement Supports, Services and Assistance

UC INSTRUMENTS provides high performance, high value, low cost, affordable test and measurement instrument solutions for our customers. Our extensive support sources can help you choose right UC INSTRUMENTS' products for your specific applications and apply them successfully. Every instrument /system we sell has a global warranty. All of our instruments are with at least 12 months factory warranty.

Our Promises

All of UC INSTRUMENTS' test and measurement instruments and systems meet their advertised performance and functionality. When you select a UC INSTRUMENTS' product, we can help your product operation with our decade experiences, and provide the basic measurement assistance for the use of special capabilities.

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