

UC INSTRUMENTS GM81014 + GM8300X Optical Head Modules

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GM81014 + GM8300X Optical Head Modules

The GM81014 + GM83001 and GM81014 + GM83002 optical head modules offer superior performance in testing DWDM components, AWG & PLC components, optical amplifiers, and performing other general-purpose fiber optical test and measurement applications.

A GM8001B mainframe can host one set out of the GM81014 + GM83001, or GM81014 + GM83002 optical head modules, comprising a high performance, compact dimension, fast startup, affordable optical power meter test system. This 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

- WDM, GFF, AWG, PLC component tests
- Fiber sensor/ sensor array developments
- PMD and PDL measurements
- Fiber optical, telecom R&D lab tests



Specifications

Model #	GM81014 + GM83001E	GM81016 + GM83001E
Sensor Element	Single Channel InGaAs	Dual Channel InGaAs
Wavelength Range	850 ~ 1700 nm	
Power Range	+ 3 ~ -85 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 ~ +40 °C	
Storage Temperature	-30 ~ +80 °C	
Recalibration Period	2 years	
Dimensions	75 mm H, 32 mm W, 310 mm D (GM81014/GM81016); 63mm H, 43 mm W, 150 mm D (GM83001)	
Weight	0.5 kg	

Model #	GM81014 + GM83002	GM81016 + GM83002
Sensor Element	Single Channel InGaAs	Dual Channel InGaAs
Wavelength Range	850 ~ 1700 nm	
Power Range	+ 23 ~ -60 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 ~ +40 °C	
Storage Temperature	-30 ~ +80 °C	
Recalibration Period	2 years	
Dimensions	75 mm H, 32 mm W, 310 mm D (GM81014/GM81016); 63mm H, 43 mm W, 150 mm D (GM83002)	
Weight	0.5 kg	

Note: customers may contact UC INSTRUMENTS customer service to get more details on GM8001B Lightwave Multimeter specification.

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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