

# UC INSTRUMENTS GM8012 + 2 X GM8300X Optical Power Meter

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# **GM8012 + 2 X GM8300X Optical Power Meter**

The GM8012 + 2 X GM8300X optical power meter offer superior performance in testing DWDM components, AWG & PLC components, optical amplifiers, and performing other general-purpose fiber optical test and measurement applications. This is a special design for mass production line application.

GM8012 + 2 X GM8300X optical power meter is a high performance, compact dimension, fast startup, affordable optical power meter test system, providing 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
- Insertion loss, return Loss investigations
- Fiber sensor, fiber cable tests
- PMD and PDL measurements
- Fiber optical, telecom R&D lab tests

# Specifications

<b>Model #</b>	<b>GM8012 + GM83001E</b>	<b>GM8012 + 2 X GM83001E</b>
Sensor Element	<b>Single Channel InGaAs</b>	<b>Dual Channel InGaAs</b>
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	200 mm H, 105 mm W, 250 mm D	
Weight	6.5 kg	

<b>Model #</b>	<b>GM8012 + GM83002</b>	<b>GM8012 + 2 X GM83002</b>
Sensor Element	<b>Single Channel InGaAs</b>	<b>Dual Channel InGaAs</b>
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	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.

## **Contact Information**

### **United States:**

#### **UC INSTRUMENTS CORP.**

3652 Edison Way  
Fremont, CA 94538  
USA

Tel: 1-510-366-7353

Fax: 1-510-795-1795

[www.ucinstruments.com](http://www.ucinstruments.com)

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