

# UC INSTRUMENTS GM8012 + 2 X GM8300X Optical Power Meter

**Technical Specifications V1.04**  
**May, 2010**



# **GM8012 + GM83001X (or GM83002X) Optical Power Meter**

The GM8012 + 2 X GM83001X(or 2 X GM83002X) optical power meter offer superior performance for the test of DWDM components, AWG & PLC components, optical amplifiers, and other general purpose of fiber optical test and measurement applications. It is special design for volume production line application.

GM8012 + 2 X GM83001X(or 2 X GM83002X) optical power meter is a High Performance, Small Dimension, Fast Startup, Affordable Optical Power Meter test system. It provides low power, high power, single channel and dual channel optical power meter modules options. UC Instruments also can provide high channel count solution up to 16 channels.

## **Features**

- High performance
- Quick startup
- Difference power range and difference channel number available
- Small dimension
- Affordable price

## **Applications**

- WDM, AWG, PLC components Insertion Loss, Return Loss test
- Fiber Sensor, Fiber Cable test
- PMD and PDL measurement
- Fiber Optical , Telcom R & D lab test

# Specifications

<b>Model #</b>	<b>GM8012 + GM83001E</b>	<b>GM8012 + 2 X GM83001E</b>
<i>Sensor Element</i>	<b>Single Channel InGaAs</b>	<b>Dual Channel InGaAs</b>
<i>Wavelength Range</i>	850 ~ 1700 nm	
<i>Power Range</i>	+ 3 ~ -85 dBm	
<i>Application Fiber Type</i>	Standard SM and MM up to 62.5 um core size	
<i>Uncertainty (accuracy) at reference condition</i>	+/- 4% (1200 nm ~ 1610 nm)	
<i>Relative Uncertainty (accuracy) at reference condition</i>	< 0.02 dB Typical	
<i>Linearity (power)</i>	<= +/- 0.06 dB (1200 nm ~ 1610 nm, + 0 ~ -60 dBm)	
<i>Return Loss</i>	> 40 dB	
<i>Operation Temperature</i>	0 ~ +40°C	
<i>Storage Temperature</i>	-30 ~ +80°C	
<i>Recalibration Period</i>	2 years	
<i>Dimensions</i>	200 mm W, 105 mm H, 250 mm D	
<i>Weight</i>	4.5 kg	

<b>Model #</b>	<b>GM8012 + GM83002</b>	<b>GM8012 + 2 X GM83002</b>
<i>Sensor Element</i>	<b>Single Channel InGaAs</b>	<b>Dual Channel InGaAs</b>
<i>Wavelength Range</i>	850 ~ 1700 nm	
<i>Power Range</i>	+ 23 ~ -60 dBm	
<i>Application Fiber Type</i>	Standard SM and MM up to 62.5 um core size	
<i>Uncertainty (accuracy) at reference condition</i>	+/- 4% (1200 nm ~ 1610 nm)	
<i>Relative Uncertainty (accuracy) at reference condition</i>	< 0.02 dB Typical	
<i>Linearity (power)</i>	<= +/- 0.06 dB (1200 nm ~ 1610 nm, +20 ~ -40 dBm)	
<i>Return Loss</i>	> 40 dB	
<i>Operation Temperature</i>	0 ~ +40°C	
<i>Storage Temperature</i>	-30 ~ +80°C	
<i>Recalibration Period</i>	2 years	
<i>Dimensions</i>	200 mm W, 105 mm H, 250 mm D	
<i>Weight</i>	4.5 kg	

Customers can contact with UC INSTRUMENTS customers services to get detail GM8001 Lightwave

Multimeter specification.

## **UC INSTRUMENTS' Test and Measurement Support, Services and Assistance**

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

### **Our Promise**

All of UC INSTRUMENTS' test and measurement instruments and system will met its advertised performance and functionality. When you select UC INSTRUMENTS' products, we can verify if it is work properly, help with products operation, and provides the basic measurement assistance for the use of special capabilities.

### **Contact Information**

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May, 2010

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