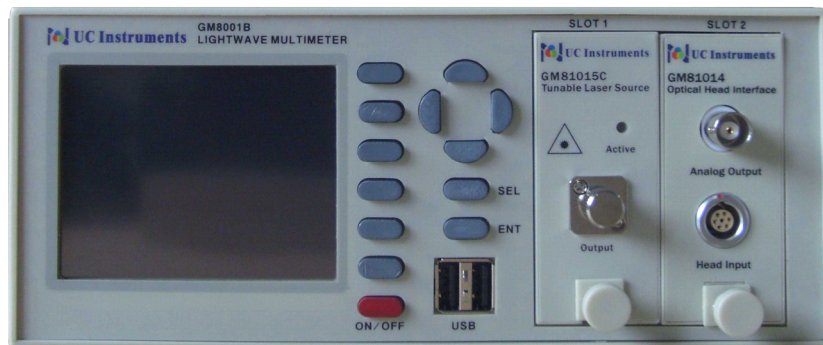


UC INSTRUMENTS GM8001B Lightwave Multimeter

Technical Specifications Ver 1.01
May, 2010



GM8001B Mainframe

The UC INSTRUMENTS Lightwave Multimeter system includes the mainframe and a variety of plug-in modules suited for set up requiring:

- Single or dual channel optical power meters
- Single or dual channel tunable laser sources
- Single or dual channel tunable filters
- Optical attenuator
- Single or dual channel optical spectrum analyzer
- Optical channel monitors
- Loss test set
- Return loss test set
- 500 point per second tunable laser source full range scanning. Minimum step 1 pm.
- Can be configured into a passived optical components testing system and record testing spectrum curve.

GM8001B Specifications

Display	320 × 240 points RGB Color Touch Screen
Display Resolution (Power Meters)	0.001 dB/dBm, 0.001 nW / uW / mW
Compatibility	The GM8001B mainframe supports all GM81xxx Series modules.
Data Acquisitions Memory Selectable data averaging time Selectable total data averaging time	64M bits, flash memory depends on sensor module 20 ms to 23:59:59 h
Environmental Storage temperature Operating temperature Humidity	-40° C to +70° C 0° C to +45° C <95% R.H. from 0° C to +45° C
Power	AC 100 - 240 V ± 10%, 48 - 66 Hz, 100 VA max.
Dimensions	88 mm × 213 mm × 318 mm (3.5" × 8.4" × 12.7")
Weight	net 3.400 kg
Communication Port	RS232, USB, Ethernet. Also can select our GPIB-RS232 cable accessory to support GPIB function
Number of Modules	2 Modules

The UC INSTRUMENTS GM8001B Lightwave Multimeter displays two channels.

GM8001 Compatible GM81xxx Series modules

Optical Power Meter Module	
Model No.	Description
GM81002	Single Channel Optical Power Meter Module; +23 to -60 dBm
GM81003	Dual – Channel Optical Power Meter Module; +23 to -60 dBm
GM81005	Single Channel Optical Power Meter Module; +3 to -80 dBm
GM81006	Dual – Channel Optical Power Meter Module; +3 to -80 dBm
GM81014 + GM83001E	Single Channel Optical Power Meter Module with power meter header; +3 to -80 dBm
GM81016+ 2* GM83001E	Dual – Channel Optical Power Meter Module with power meter header; +3 to -80 dBm
GM81014 + GM83002	Single Channel Optical Power Meter Module with power meter header; ; +23 to -60 dBm
GM81016+ 2* GM83002	Dual – Channel Optical Power Meter Module with power meter header; +23 to -60 dBm

Tunable Laser Source Module	
Model No.	Description
GM81001C	C-Band Tunable Laser Source Module; 1528.00 nm ~ 1568.00 nm
GM81001L	L-Band Tunable Laser Source Module; 1568.00 nm ~ 1610.00 nm
GM81001CL	C+L Band Tunable Laser Source Module; 1528.00 nm ~ 1610.00 nm
GM81015C	C-Band Tunable Laser Source Module with quick scan function ; 1525.00 nm ~ 1568.00 nm
GM81015L	L-Band Tunable Laser Source Module with quick scan function ; 1568.00 nm ~ 1610.00 nm
GM81015CL	C+L Band Tunable Laser Source Module with quick scan function ; 1525.00 nm ~ 1610.00 nm
GM81022C	High Speed Sweep Tunable Laser Source Module; 1525.00 nm ~ 1568.00 nm
GM81022L	High Speed Sweep Tunable Laser Source Module; 1568.00 nm ~ 1610.00 nm
GM81022CL	High Speed Sweep Tunable Laser Source Module; 1525.00 nm ~ 1610.00 nm

Optical Attenuator Module	
Model No.	Description
GM81007CL	C + L Band Optical Attenuator Module; 0 ~ 40 dB
GM81008	Optical Attenuator Module; 800 nm ~ 1700 nm

Tunable Filter Module	
Model No.	Description
GM81010C50	C Band 50 GHz Tunable Filter Module; 1528.00 nm ~ 1562.00 nm

GM81010C100	C Band 100 GHz Tunable Filter Module; 1528.00 nm ~ 1562.00 nm
GM81010L50	L Band 50 GHz Tunable Filter Module; 1567.00 nm ~ 1603.00 nm
GM81010L100	L Band 100 GHz Tunable Filter Module; 1567.00 nm ~ 1603.00 nm
GM81010CL50	C + L Band 50 GHz Tunable Filter Module; 1528.00 nm ~ 1603.00 nm
GM81010CL100	C + L Band 100 GHz Tunable Filter Module; 1528.00 nm ~ 1603.00 nm

Optical Spectrum Analyzer Module	
Model No.	Description
GM81011C	C band Optical Spectrum Analyzer Module; 1529.00 nm ~ 1562.00nm
GM81011L	L band Optical Spectrum Analyzer Module; 1567.00 nm ~ 1602.00 nm
GM81011CL	C + L band Optical Spectrum Analyzer Module; 1529.00 nm ~1602.00 nm

Optical Channel Monitor Module	
Model No.	Description
GM81012C	C band Optical Channel Monitor Module; 1529.00 nm ~ 1562.00 nm
GM81012L	L band Optical Channel Monitor Module; 1567.00 nm ~ 1602.00 nm
GM81012CL	C + L band Optical Channel Monitor Module; 1529.00 nm ~ 1602.00 nm

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

United States:

UC INSTRUMENTS CORP.

37498 Glenmoor Dr.
Fremont, CA 94536
USA
Tel: 1-510-366-7353
Fax: 1-510-795-1795
customerservice@ucinstruments.com
www.ucinstruments.com

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