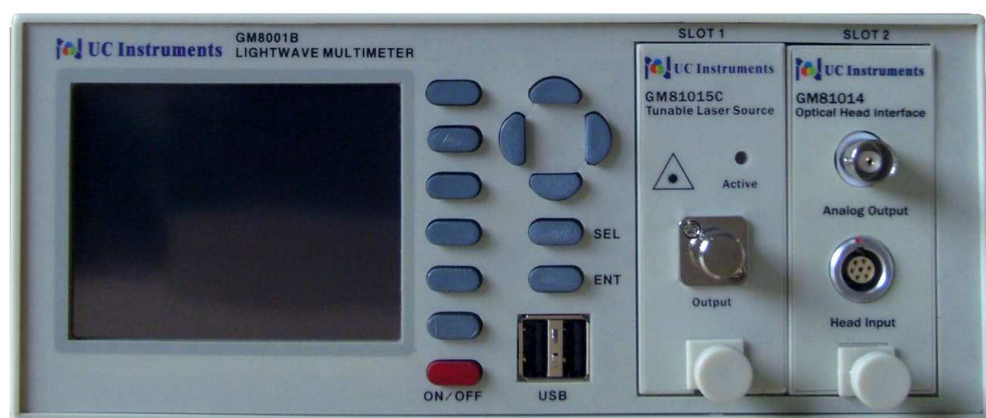


UC INSTRUMENTS GM8001B Lightwave Multimeter

Technical Specifications Ver 1.04
May, 2010



GM8001B Mainframe

The UC INSTRUMENTS Lightwave Multimeter system consists of the mainframe and a variety of plug-in modules to meet different setup needs/requirements:

- 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
- Tunable laser source full range sweep with 1 pm minimum step
- Capable of being configured as a passive optical component in a testing system to record testing spectrum curve

GM8001B Specifications

GM8001B Lightwave Multimeter Displays with Two Channels

Display	Graphical display 320 X 240 points visible, monochrome
Display Resolution (Power Sensor Modules)	0.001 dB/dBm, 0.001 nW / uW / mW
Compatibility	GM8001B support GM81xxxxx serial modules
Data Acquisitions Memory Selectable data averaging time Selectable total data averaging time	16M; 16M bits, flash dependent on sensor module 20 ms to 23:59:59 h
Storage temperature	- 40°C~ +70°C
Operating temperature	0°C~ +45°C, <95% R.H.
Power	AC 100 - 240 V $\pm$ 10%, 48 - 66 Hz, 100 VA max.
Dimensions	88 mm $\times$ 213 mm $\times$ 318 mm
Weight	Net 3.400 kg
Interfaces	RS232, ETHERNET, USB
Number of Modules	2 Modules

GM8001B 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+ 2XGM83001E	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+ 2XGM83002	Dual Channel Optical Power Meter Module with power meter header; +23 to -60 dBm
GM81014 + GM83004	Single Channel Optical Power Meter Module with large active area power meter header; +3 to -80 dBm

Tunable Laser Source Module	
Model No.	Description
GM81015C	C-Band Tunable Laser Source Module with sweep function ; 1525.00 nm ~ 1568.00 nm
GM81015L	L-Band Tunable Laser Source Module with sweep function ; 1568.00 nm ~ 1610.00 nm
GM81015CL	C+L Band Tunable Laser Source Module with sweep 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 ~ 60 dB

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 ~ 1567.00nm
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 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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