

UC INSTRUMENTS GM8005 Portable Tunable Laser Source with Optical Power Meter

Technical Specifications Ver 1.02
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GM8005 Portable Tunable Laser Source with Optical Power Meter

The GM8005CP, GM8005LP portable tunable lasers offer superior performance for the test of field DWDM components, AWG & PLC components, optical amplifiers, DWDM system and other general purpose of fiber optical test and measurement applications. The internal integrated optical power meter provides a compact portable test system platform. Long life battery power provides more than 8 hours outdoor test capability.

Features

- Portable
- High wavelength accuracy
- Quick startup
- High power laser source
- Internal Integrated Optical Attenuator & Power Meter

Applications

- Field WDM, GFF, AWG, PLC, and ATM system engineering trouble shoot
- Fiber sensors test
- PMD and PDL measurement
- Fiber optical , Telcom R & D lab test
- Impact field testing system

Specifications

The UC INSTRUMENTS GM8005 Series Portable Tunable Laser Source's Specification as below:

Model #	GM8005CP	GM8005LP
Tunable Laser Source		
<i>Wavelength range</i>	1526.00 to 1566.00 nm	1566.00 to 1608.00 nm
<i>Output Power</i>	>= 20 mW	>= 10 mW
<i>Wavelength resolution</i>	1.0 pm	
<i>Absolute wavelength accuracy</i>	+/- 10 pm, tpy. < 5 pm	
<i>Relative wavelength accuracy</i>	+/- 5 pm, Typ. +/- 2 pm	
<i>Wavelength repeatability</i>	+/- 2 pm, typ. +/- 1 pm	
<i>Wavelength stability (typ., 24 hrs at constant temperature)</i>	<= +/- 2 pm	
<i>Tuning speed</i>	<= 0.02 s per step	
<i>Power stability</i>	< +/- 0.1 dB, 24 hours.	
<i>Power repeatability</i>	+/- 0.05 dB	
<i>Power linearity</i>	+/- 0.3 dB	
<i>Power fiatness versus wavelength</i>	0.3 dB typ., 0.5 dB max.	
<i>Side-mode Suppression ritio</i>	>= 40 dBc	
<i>Relative intensity noise(RIN. Typ.)</i>	< -135 dB	
Power Meter		
<i>Wavelength Range</i>	850 nm to 1650 nm	
<i>Power Measurement Range</i>	+23 dBm to -50 dBm	
<i>Power Accuracy</i>	< +/- 2%	
<i>Power repeatability</i>	< 0.1 dB	
<i>Power Adaptor Power</i>	AC 100 - 240 V \pm 10%, 48 - 66 Hz, 100 VA max.	
<i>Battery Power</i>	> 8 hours after fully charge	
<i>Display</i>	Graphical display 320 \times 240 points visible, monochrome.	
<i>Environmental</i>	-40° C to +80° C	
<i>Storage temperature</i>	0° C to +45° C	
<i>Operating temperature</i>	<95% R.H. from 0° C to +45° C	
<i>Humidity</i>	<95% R.H. from 0° C to +45° C	
<i>Work Environmental</i>	-10° C to +70° C	
	0° C to +45° C	
	<95% R.H. from 0° C to +45° C	
<i>Dimensions</i>	256 x 169 x 64 mm	

<i>Weight</i>	<i>5.0 lbs</i>
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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 18 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.

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