UC INSTRUMENTS GM8005 Portable Tunable Laser Source with Optical Power Meter

Technical Specifications Ver 1.07
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UC INSTRUMENTS CORP.

GM8005 Portable Tunable Laser Source with Optical Power Meter

The GM8005CP and GM8005LP tunable laser sources offer superior performance in testing DWDM components, AWG & PLC components, optical amplifiers, and performing other general-purpose fiber optical test and measurement applications. The portable meter integrated internal optical power meter with the tunable laser source provides an important portable test platform. In addition, the fully charged battery offers the meter greater than 8 hours in-field test capability.

Features

- High wavelength accuracy
- Continuous wavelength tunability
- High power output
- Rapid tuning speed
- Fast startup
- Build-in optical power meter
- Handheld device
- Battery powered portability

Applications

- Field WDM, GFF, AWG, PLC and ATM system engineering in situ trouble shooting
- Fiber sensor/sensor array tests
- PMD and PDL measurements
- Fiber optical, telecom R&D lab tests
- Compact field testing system
- WDM PON testing tool

Specifications

Model #	***GM8005CP***	***GM8005LP***
Tunable Laser Source		
Wavelength range	**1526.00 to 1566.00 nm**	**1566.00 to 1608.00 nm**
Output Power	>= 20 mW	>= 10 mW
Power Adjust Range	25 dB	25 dB
Wavelength resolution	1.0 pm	
Absolute wavelength accuracy	+/- 10 pm, typ. < 5 pm	
Relative wavelength accuracy	+/- 5 pm, Typ. +/- 2 pm	
Wavelength repeatability	+/- 2 pm, typ. +/- 1 pm	
Wavelength stability (typ., 24 hrs at constant temperature	<= +/- 2 pm	
Tuning speed	<= 0.02 s per step	
Power stability	< +/- 0.1 dB, 24 hours.	
Power repeatability	+/- 0.05 dB	
Power linearity	+/- 0.3 dB	
Power flatness versus wavelength	*0.3 dB typ., 0.5 dB max.*	
Side-mode Suppression ratio	*>= 40 dBc*	
Relative intensity noise (RIN. Typ.)	*< -135 dB*	
Power Meter		
Wavelength Range	*850 nm to 1650 nm*	
Power Measurement Range	*+13 dBm to -70 dBm*	
Power Accuracy	*< +/- 2%*	
Power repeatability	*< 0.1 dB*	
Power Adaptor Power	*AC 100 - 240 V ± 10%, 48 - 66 Hz, 100 VA max.*	
Battery Power	*> 8 hours after fully charge*	
Display	*Graphical display 320 × 240 points visible, monochrome.*	
Environmental temperature *Storage temperature* *Operating temperature* *Humidity*	*−40 ° C to +80 ° C* *0 ° C to +45 ° C* *<95% R.H. from 0 ° C to +45 ° C*	
Working Environment	*−10 ° C to +70 ° C* *0 ° C to +45 ° C* *<95% R.H. from 0 ° C to +45 ° C*	
Dimensions	*255 x 170 x 65 mm*	
Weight	*5.0 lbs*	

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: 1-510-353-1809
www.ucinstruments.com

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