UC INSTRUMENTS GM8024EC + 2 X GM83003EC Optical Power Meter

Technical Specifications V1.01
Nov., 2010

UC INSTRUMENTS CORP.

GM8024EC + GM83003EC **(or GM83002EC)** Optical Power Meter

The GM8024EC + 2 X GM83003EC(or 2 X GM83002EC) optical power meter offer superior performance for the test of CWDM, 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.

GM8024EC + 2 X GM83003EC(or 2 X GM83002EC) 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

Model #	***GM8024EC + GM83003EC***	***GM8024EC + 2 X GM83003EC***
Sensor Element	***Single Channel InGaAs***	***Dual Channel InGaAs***
Wavelength Range	*850 ~ 1700 nm*	
Power Range	*+ 3 ~ -70 dBm*	
Application Fiber Type	*Standard SM and MM up to 62.5 um core size*	
Calibration Wavelength	*850，980, 1310，1490，1550，1625*	
Uncertainty (accuracy) at reference condition	*+/- 4% (1200 nm ~ 1610 nm)*	
Relative Uncertainty (accuracy) at reference condition	*< 0.04 dB Typical*	
Linearity (power)	*<= +/- 0.06 dB (1550 nm, + 0~ -60 dBm)*	
Return Loss	*> 40 dB*	
Operation Temperature	*0 ~ +40℃*	
Storage Temperature	*-30 ~ +80℃*	
Recalibration Period	*2 years*	
Dimensions	*200 mm W, 105 mm H, 250 mm D*	
Weight	*4.5 kg*	

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Sensor Element	***Single Channel InGaAs***	***Dual Channel InGaAs***
Wavelength Range	*850 ~ 1700 nm*	
Power Range	*+ 23 ~ -55 dBm*	
Application Fiber Type	*Standard SM and MM up to 62.5 um core size*	
Calibration Wavelength	*850，980, 1310，1490，1550，1625*	
Uncertainty (accuracy) at reference condition	*+/- 4% (1200 nm ~ 1610 nm)*	
Relative Uncertainty (accuracy) at reference condition	*< 0.04 dB Typical*	
Linearity (power)	*<= +/- 0.06 dB (1200 nm ~ 1610 nm, +20 ~ -40 dBm)*	
Return Loss	*> 40 dB*	
Operation Temperature	*0 ~ +40℃*	
Storage Temperature	*-30 ~ +80℃*	

Recalibration Period	*2 years*
Dimensions	*200 mm W, 105 mm H, 250 mm D*
Weight	*4.5 kg*

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.

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