## **UC INSTRUMENTS GM8015 Motorized Polarization Scrambler**

Technical Specifications Ver 2.00 May, 2010





#### **GM8015 Motorized Polarization Scrambler**

The UC INSTRUMENTS GM8015 Motorized Polarization Scrambler is a program motorized control polarization scrambler. Its polarization controlled capability enhances measurement speed, accuracy, and overall productivity. The continuous length of fiber enables high power and ultra-low insertion loss. This design offers a wide range of Auto Scan rates and high incremental angular resolution. Four fiber knob loop design has proven to provide excellent control with ultra-low power variations (PDL). This reliable design allows for a wide range of applications from component testing to PMD related activities.

#### Features

Single-fiber design Ultra-low insertion loss, PDL, and back-reflection Convenient save/recall settings Multi-rate polarization scrambling Auto Scan operation with a wide dynamic range of rotational speed RS-232 interface Small dimension Affordable price

#### Applications

Component level PDL measurements Sub-system PDL testing General purpose in-line control of the SOP Low to medium-speed polarization scrambler Polarization pattern generator Maximize or minimize signal intensity with feedback from optical power meters Component within PMD emulator Component within PMD compensator Polarization stabilizer

# Specifications

Model #	GM8015
Principle	4 Motorized Fiber Knob Loop
Wavelength Range	1200 ~ 1700 nm
Insertion Loss	< 0.5  dB
Extinction Loss	40 dB
PDL	< 0.008 dB *
Optical Connector	FC/PC
Operating Temperature	$\theta \sim 40 \ ^{\circ}C$
Interface	<i>RS232</i>
Power	100 ~ 240 V AC, 50 - 60 Hz
Operation Temperature	0~ +40°C
Storage Temperature	-30~+80°C
Dimensions	200 mm W, 105 mm H, 350 mm D
Weight	5.3 kg

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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**

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