

NEW

Polarization Extinction Ratio Meter PEM-330

The PEM-330, polarization extinction ratio (PER) meter enables rapid and accurate polarization axis alignment of optical components to a PMF (Polarization Maintaining Fiber). The PEM-330 incorporates a powerful GPIB interface enabling full system integration and production line automation. In addition, to facilitate automatic alignment of diode lasers to optical fibers, an analog power monitor with 1kHz response time is available. With this addition, both translational and rotational fiber alignment can be controlled automatically.



Features

- ▶ Full band 1260-1630nm
- ▶ Simultaneous display of extinction ratio, optical power, and polarization angle
- ▶ 40 dB dynamic range for PER measurement
- ▶ Wide dynamic range for input power (-30 to +10 dBm)
- ▶ Direct PD analog Output
- ▶ Analog output
- ▶ GPIB and RS-232C interface
- ▶ Real-time (up to 10Hz) measurement
- ▶ Option utility software (for controlling instrument and acquiring/storing data)
- ▶ Connector options
FC/SC SPC, FC/SC APC or LC SPC

Applications

- ▶ Alignment of polarization axis of optical devices
- ▶ Connectorized PMF patch cord evaluation
- ▶ PMF pigtailed laser diodes evaluation

Specification

Parameter	Unit	Spec
Wavelength Range	nm	1260 - 1630nm
PER Dynamic Range	dB	40
PER Resolution	dB	0.1
PER Accuracy	dB	<±0.3 ^{*1}
Input Power	dBm	-30 - +10
Power Resolution	dB	0.01
Power Accuracy	dB	<±0.1 ^{*2}
Polarization Angle Resolution	deg	0.12 ^{*3}
Polarization Angle Accuracy	deg	<±0.45
Measurement Speed	sec	0.1/ 0.2/ 0.4
Interface	-	GP-IB, RS-232C
Operating Temperature	°C	0-40
Size (W) x (D) x (H)	mm	210x300x80
Weight	kg	3
Supply Voltage	V	AC100-240
Max. Power consumption	W	35VA

*1: Temperature:20-30°C, PER<30dB, Measurement Speed:2.5Hz

*2: Calibrated wavelength:1310nm / 1550nm

*3: Measurement Speed:2.5Hz

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