

Polarization Extinction Ratio Meter

ER2200

FIBERPRO's Polarization Extinction Ratio Meters, ER2200 measure the Polarization Extinction

Ratio(PER), Polarization Angle and Power with high accuracy. They also provide the holding function of minimum PER during measurement and the monitoring function of relative power.

The main application is to characterize the PER of Polarization Maintaining (PM) Devices, and to align the PM fiber to laser diodes, polarizers, and PM devices.



Single Channel PER Meter

Features

- Wide dynamic range : Up to 50 dB
- Wide Wavelength Range : 1260 ~ 1640nm
- Minimum PER holding function
- Relative power monitoring function
- GPIB / RS232 / USB remote interface

Applications

1. Polarization Extinction Ratio Measurement

FIBERPRO's PER Meter measures Polarization Extinction Ratio(PER), which is an important characteristic of Polarization Maintaining Fiber(PMF), PM patch cords and other PM devices.

2. Alignment of Polarization Axis of Optical Devices

PER measurement can be used in launching the optical light to Polarization Maintaining Fibers and aligning polarization axis of optical devices, such as polarization maintaining fiber pig-tailing to laser diodes, polarizers, polarization splitters, combiners, etc.

Specifications

Wavelength Range	1260 nm ~ 1640 nm
Input Power Range	- 40 dBm ~ +10 dBm
PER Dynamic Range	0 dB ~ 50 dB for input power -5 ~ +10 dBm
	0 dB ~ 45 dB for input power -10 ~ -5 dBm
	0 dB ~ 35 dB for input power -20 ~ -10 dBm
	0 dB ~ 25 dB for input power -30 ~ -20 dBm
PER Resolution	0.1 dB
PER Accuracy	± 0.3 dB for PER < 40 dB
Polarization Angle Resolution	0.1°
Polarization Angle Accuracy	$\pm 1^\circ$
Power Resolution	0.1 dB
Power Accuracy	± 0.3 dB at 1550m
Measurement Speed	0.1 ~ 2 sec
Optical Input	FC / PC
AC Input Power	100 ~ 240 VAC, 50 / 60 Hz
Interface	GPIOB / RS232 / USB
Operating Temperature	10 °C ~ 40 °C
Dimension (W x D x H)	234mm x 350mm x 108mm (With rubber cover)
	212mm x 320mm x 86mm (Without rubber cover)

Ordering Code

ER (1) - (2)

1. Channel ➡ Single Channel(2200)

2. Connector type ➡ FC/PC(F/P), FC/APC(F/A), SC/PC(S/P), SC/APC(S/A)



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