FIBERPRO

Polarization Extinction Ratio meter

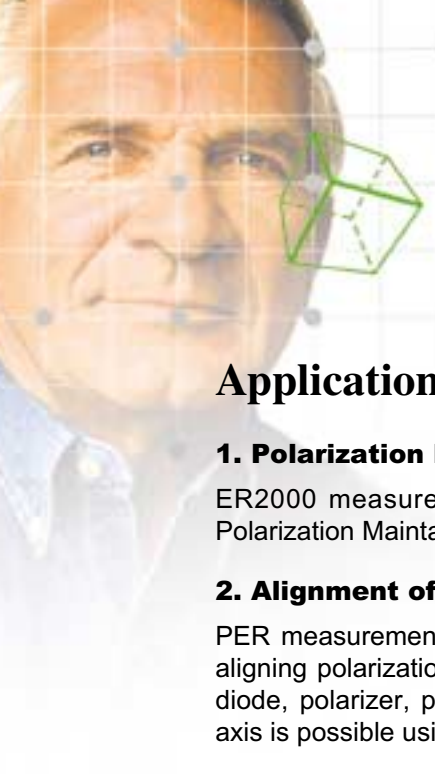
ER2000

FIBERPRO's Polarization Extinction Ratio Meter, ER2000, measures the Polarization Extinction Ratio (PER), Polarization Angle and Power with high accuracy and fast speed. ER2000 also provides the holding function of minimum PER during measurement, and the monitoring function of relative power.

The main application of ER2000 is to characterize the PER of Polarization Maintaining(PM) Devices, and to align the PM fiber to laser diode, polarizer, and PM devices.

Features

40 dB dynamic range for PER measurement
Wide range of Input Power
Fast measurement Speed
Holding function of minimum PER
Relative power monitoring function
3 Analog outputs for active control
GPIB/RS232 Remote Interface



Polarization Extinction Ratio meter

Applications

1. Polarization Extinction Ratio Measurement

ER2000 measures Polarization Extinction Ratio (PER), which is an important characteristic of Polarization Maintaining Fiber(PMF), PM patch cord and other PM devices.

2. Alignment of Polarization Axis of Optical Device

PER measurement can be used in launching the optical light to Polarization Maintaining Fiber and aligning polarization axis of optical devices, such as polarization maintaining fiber pig-tailing to laser diode, polarizer, polarization splitter, combiner, etc. Active feedback control in aligning polarization axis is possible using three analog outputs. (PER, Angle, Power.)

Specification

Operating Wavelength	1550 nm [1]
Input power range	-50 dBm ~ 7 dBm [2]
Polarization Extinction Ratio Range	0 dB ~ 40 dB
Polarization Extinction Ratio Resolution	0.1 dB [3]
Angle Resolution	0.1 degree
Measurement speed	12 Hz
Optical Input	FC/PC [4]
Analog .Output	PER, Angle, Power
AC Input power	100 ~ 125 V, 210 ~ 250 V, 50 Hz / 60 Hz
Dimensions (HxWxD)	86 X 212 X 420 mm
Operating Temperature	10℃ ~ 40℃
Storage Temperature	-10℃ ~ 60℃
Interface	RS232 / GPIB

1. Other wavelength band (980 nm etc.) is available.
2. For high input power, 9 dB attenuator option is available.
3. At the PER of 30 dB
4. FC/APC, SC/PC and SC/APC are available.

Ordering code

ER2000-(1)-(2)-(3)

1. wavelength band → 1550 nm (155), 980 nm (098)
2. 9 dB attenuator → include (A), not include (X)
3. connector type → FC/PC(F/P), FC/APC(F/A), SC/PC(S/P), SC/APC(S/A)

Example : ER2000-155-A-F/P

→ ER2000 is operating at 1550 nm with 9 dB attenuator and FC/PC connector.

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