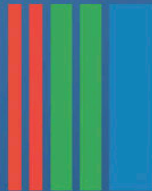


Polarization Extinction Ratio Meter, Benchtop Model PER-M500



*This product is sold
and supported
in the USA by*



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marketplace for **Scientists & Engineers**

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The Perfect Benchtop Tester Series

Polarization Extinction Ratio Meter PER-M500



Product Description:

Techwin Polarization Extinction Ratio Meter PER-M500 is used to detect the polarization extinction ratio (PER) of polarization-maintaining devices, the degree of polarization of light sources, the extinction ratio of polarization-maintaining fibers and other polarization-maintaining devices, it is a new generation of precision optical measuring instrument developed by Techwin with many years' experience in optical device testing. It can be used to measure the extinction ratio of polarization maintaining fiber, the extinction ratio of polarization maintaining device, the extinction ratio of polarization maintaining connector, the polarization degree of light source and the angle of polarization axis. The upper computer software has powerful functions and is easy to operate.

Features:

- Up to 50dB Max PER
- Support free space input
- 1,2,4,or multiple channels for simultaneous measurement
- Interchangeable interface FC/SC/LC
- OPM, extinction ratio, optical axis angle, same screen display of polarization degree
- 840-950nm,960-1160nm,1260-1630nm; 3 types wavelength available
- Support RS232 interface;

Applications:

- Measurement of extinction ratio of PMF(polarization maintaining fiber)
- Alignment of PMF with laser source
- Alignment of polarization axis of optical device
- Testing of Y-branch fiber optic gyroscope
- Test PM coupler and polarization beam splitter
- Fusion splice monitoring of PMF

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Specifications:

| Parameter | Technical specification | |
|-----------------------------------|---|-------------|
| Wavelength range ¹⁾ | 840~950/960~1160nm | 1260~1630nm |
| Maximum Input power ²⁾ | +5dBm/+20dBm | |
| PER dynamic range | 40dB | 50dB |
| PER range | +5dBm: -5~+5dBm: 0~40dB -5~+5dBm: 0~50dB -15~+5dBm: 0~30dB -15~+5dBm: 0~40dB -25~+5dBm: 0~20dB -25~+5dBm: 0~30dB -35~+5dBm: 0~20dB | |
| | +20dBm: +10~+20dBm: 0~40dB +10~+20dBm: 0~50dB 0~+20dBm: 0~30dB 0~+20dBm: 0~40dB -10~+20dBm: 0~20dB 10~+20dBm: 0~30dB -20~+20dBm: 0~20dB | |
| PER resolution ratio | <10dB: 0.001dB ≥10dB: 0.01dB | |
| PER accuracy | PER≤2dB: A type≤±0.1dB B type ³⁾ ≤±0.03dB PER<30dB: < ±0.3dB PER≥30dB: < ±1.0dB | |
| Polarization angular resolution | 0.11° | |
| Accuracy of polarization Angle | < ±0.45° | |
| Measuring speed | 0.25S | |
| Type of connector | FC/PC (also support SC/LC interface) | |
| Communication interface | RS232 | |
| Operating system | Win7 32/64bit Win10 32/64 bit | |
| Display | Recommend 21inch display screen; minimum resolution 1600*900 | |
| AC input | 220V, 50Hz | |
| Power on warm-up time | 15min | |
| Operating temperature | +10~+40°C | |
| Storage temperature | -15~+70°C | |
| Weight | 4kg | |
| Dimension | 2U*235*300 mm | |

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Notes:

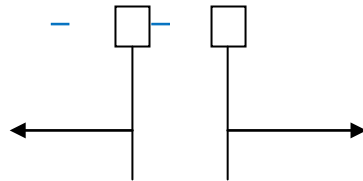
- 1)The wavelength range is 840-950nm//960-1160nm/1260-1630nm, other wavelength bands can be customized.
- 2) Customizable, higher input power will be available.
- 3) Please consult our company for Type B related details.

Configurations:

| | | | |
|---|---------------------------|---|------|
| 1 | Main Device | 1 | pc |
| 2 | Cotton Swab | 1 | pack |
| 3 | Power Cord | 1 | pc |
| 4 | RS232-USB connecting line | 1 | pc |
| 5 | User's Manual | 1 | pc |
| 6 | Inspection Report | 1 | pc |
| 7 | Certification | 1 | pc |

Ordering Information:

PER \leq 2dB accuracy
A: $\leq\pm 0.1$ dB
B: $\leq\pm 0.03$ dB



Wavelength
A:840~950 nm
B:960~1160nm
C:1260~1630nm