

INSTRUMENTS

Degree of Polarization Meter



Using a patented maximum & minimum search technique, this DOP meter can measure and display the Degree of Polarization (DOP) of a light source in real time with high accuracy and wide dynamic range. While polarimeter-based systems are expensive and can be inaccurate for low DOP sources, and polarization scrambler-based instruments are less accurate for high DOP sources, this amazing, low-cost DOP meter provides simple and accurate measurement of both low and high DOP sources. It is ideal for DOP characterization of depolarizers and depolarized light sources, such as ASE and SLED sources and the pumps for Raman amplifiers. It can also be used to monitor OSNR and

PMD of optical signals, and to measure the noise figure of optical amplifiers. Another attractive feature is that it operates over a wide wavelength range, including the S, C and L bands, without calibration. Finally, this instrument simultaneously measures the optical power level of the light source under test, a feature that allows measurement of DOP power dependence and enables the user to check the quality of the optical connection to the instrument.

Specifications:

Operating Wavelength Range ¹	1260 to 1650 nm standard
Resolution	0.1%
DOP Accuracy	± 0.5%
Repeatability	± 0.5%
Measurement Speed	0.2 second
DOP Range	0 ~ 100%
Operating Power Range	-25 dBm to +6 dBm
Optical Power Accuracy	± 0.25 dB
Operating Temperature	0 ~ 50 °C
Storage Temperature	-20 ~ 70 °C
Front Panel Display	2 x 20 character LCD display
Wavelength Calibration	Not required
Power Supply	100 - 120 VAC, 50 - 60 Hz, or 200 - 240 VAC, 50 - 60 Hz
Communication Interfaces	RS-232, USB, Ethernet, GPIB
Dimensions	2U, 19" half rack width 3.5"(H) × 8.5" (W) × 14" (L)

Note:

1. 970-1260nm also available. Contact General Photonics for details.

Features:

- Rapid Measurement
- No Calibration Needed
- High Accuracy and Reliability
- Front Panel Real-Time Display

Applications:

- DOP Measurement and Monitoring
- Optical Sensor Source Characterization
- ASE and SLED Source Characterization
- Raman Amplifier Block Manufacturing
- PMD Monitoring
- Amplifier Noise Figure Measurement

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Ordering Information:

DOP-101 —

Connector Type:
FC/PC, FC/APC
Others specify

Accessories:

NoTail™ Isolator p. 79
NoTail™ Polarizer p. 78

