

Degree of Polarization Meter

DOP-101

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. Other, polarimeter-based, systems are expensive and measure the DOP less accurately for low DOP sources, while polarization scrambler-based instruments are less accurate for high DOP sources. Surprisingly, our low cost DOP meter provides simple and accurate DOP measurement for 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 no calibration is needed for a wide operating wavelength range, including S, C and L bands. Finally, the instrument also simultaneously measures the optical power level of the light source under test, a feature attractive for measuring DOP power dependence and for ensuring that a good optical connection is made to the instrument.



General Photonics Corp.
5228 Edison Ave.
Chino, CA 91710

Tel: 909.590.5473
Fax: 909.902.5536

Email:
info@generalphotonics.com

Website:
www.generalphotonics.com

Specifications

Operating Wavelength Range	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 °C to 50 °C
Storage Temperature	-20 °C to 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
PC Interface	RS-232, USB, Ethernet
Dimensions	2U 19" half rack width 3.5" (H) x 8.5" (W) x 14" (L)

Note: Please specify power supply when ordering.

Applications:

- DOP measurement & monitoring
- Optical sensor source characterization
- ASE & SLED source characterization
- Raman amplifier block manufacturing
- PMD monitoring
- Amplifier noise figure measurement

Unique Features:

- Rapid measurement
- No calibration needed
- High accuracy and reliability
- Front panel real time display

Ordering Information:

DOP - 101--XXX

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