

Degree of Polarization Meter



Using a patented maximum & minimum search technique (see page 182 for details), the DOP-201 measures and displays 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, the DOP-201 accurately measures both low and high DOP. It is ideal for characterizing the performances 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 the OSNR and PMD of optical signals, and to measure the noise

figure of optical amplifiers. The instrument can cover a wide operating wavelength range, including the S, C and L bands, without calibration. Its simultaneous measurement of DOP and optical power level of the light source under test can be used to obtain DOP power dependence and to ensure low insertion loss during depolarizer manufacturing. The DOP-201 replaces our popular DOP-101, with higher measurement speed, higher measurement accuracy and resolution, wider operating power range, a better and brighter display, and the addition of an analog output port for easy integration in automated depolarizer manufacturing stations.

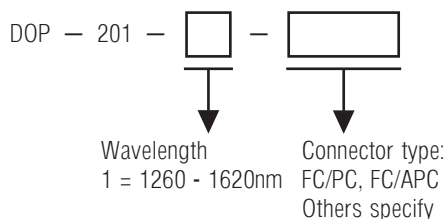
Specifications:

Operating Wavelength Range	1260 to 1620 nm standard
DOP Resolution	0.01%
DOP Accuracy ¹	±0.5% (single sample) ±0.2% (10 sample average)
Repeatability	±0.2% (10 sample average)
DOP Range	0 – 100%
Measurement Speed	30 ms/measurement for input > -30 dBm
Operating Power Range	-40 to 6 dBm
Optical Power Accuracy	±0.25 dB
Wavelength Calibration for Power Measurement	1260 to 1360 nm and 1440 to 1620 nm
Operating Temperature	0 to 50 °C
Storage Temperature	-20 to 70 °C
Front Panel Display	OLED graphic display
Analog Output	0 to 5 V max range, user configurable Monitor voltage for DOP
Power Supply	100 – 240 VAC, 50 – 60 Hz
Communication Interfaces	USB, Ethernet, RS-232, and GPIB
Dimensions	2U 19" half rack width 14" (L) x 8.5" (W) x 3.5" (H)

Note:

1. At 23 ± 5°C.

Ordering Information:



Features:

- Rapid measurement
- DOP wavelength independent
- High accuracy
- Front panel real time display
- Analog output

Applications:

- Depolarizer manufacturing and QC
- Fiber gyro coil characterization
- ASE & SLED source characterization
- Raman amplifier block manufacturing
- ROADM manufacturing
- Amplifier noise figure measurement

Accessories:

- NoTail™ Isolator p. 91
- NoTail™ Polarizer p. 90
- Rack Mount Kit p. 83

Tech Info: pp. 93, 182, 220