

P3000 Series | Automatic Economical Polarimeters



For fast standard measurements

The P3000 economical polarimeter is a simplified version of the P8000 and uses the same patented fast measurement technique. It measures samples in just 1 second, regardless of the rotation angle, saving much time over measurement with conventional polarimeters.

The P3000 is operated fully automatically with an intuitive touchscreen. Measured values can be displayed as optical rotation angles or in the ICUMSA international sugar scale, and can be printed out with the printer interface.

The P3000 offers unbeatable value for money for all applications where measurement accuracy to 2 decimal points is sufficient.

Specifications

Measuring method	Optical rotation, int. sugar scale
Measuring range	$\pm 90^\circ$ $\pm 259^\circ Z$
Measuring units	Angle [$^\circ$, $^\circ Z$]
Resolution	0.01 $^\circ$ 0.01 $^\circ Z$
Accuracy	$\pm 0.01^\circ$ $\pm 0.01^\circ Z$
Reproducibility	0.01 $^\circ$
Measuring time $\pm 90^\circ$	1 s
Light source	1 LED with filter
Wavelength	589 nm
Wavelength selection	1 fixed wavelength
Temperature measurement	0–99.9 $^\circ C$
Temperature resolution	0.1 $^\circ C$
Temperature accuracy	$\pm 0.2^\circ C$
Temperature reading point	Tube
Max. length of tube	220 mm
Sensitivity	min 0.1 % (OD3)
Calibration	Automatic (menu-driven)
Display	LCD 3.5" color display
Operation	Touchscreen
Interfaces	RS-232
Operating voltage	100–250 V, 50/60 Hz
Dimensions in cm	64.5 x 20.0 x 36.0
Weight	28 kg

Range of applications

Pharmaceutical industry

- Hospitals and pharmacies
- Monitoring chemical processes
- Purity control and determination of concentrations
- The analysis of pharmaceuticals complies with Pharmacopoeia, DAB and other national and international standards.

Chemical industry

- Purity control and determination of concentrations
- Analysis of optically active components (qualitative and quantitative)
- Determination of changes in the configuration
- Monitoring chemical processes

Sugar industry

- Quality control of original and end product
- Determination of fructose and glucose

Food industry

- Determination of concentration
- Purity control
- Quality control