

Automatic Temperature-Controlled Polarimeter

Automatic optical rotation measurement with Peltier temperature control for concentration, purity and sugar analysis. Compare tube length, temperature and data-management needs before selection.



Technical Information

Rotation range	$\pm 90^\circ$
Angular resolution	0.001°
Angular accuracy	$\pm 0.004^\circ$
Temperature control range	10-50 °C
Temperature accuracy	$\pm 0.1^\circ \text{C}$
Sugar scale range	$\pm 259^\circ \text{Z}$
Specific rotation range	± 1000
Wavelength	589.3 nm
Angular repeatability	0.001° (s)
Transmittance	0.05%
Display	8 in TFT
Storage capacity	16 GB; ≤ 64 GB
User access levels	4
Audit trail	yes

Technical Information

Electronic signature	yes
Communication	USB; RS232; VGA; Ethernet
Electrical supply	220 V $\pm$ 22 V; 50 Hz $\pm$ 1 Hz; 250 W
Net weight	28 kg
Referenced methods (confirm applicability)	GB/T 14454.5-2008; GB/T 35887-2018

Standard Configuration

The instrument configuration and supplied accessories must be itemized in the quotation. A feature described here does not imply that every accessory pictured is included.

Optional Configuration

Optional tubes include a 0.8 mL microvolume temperature-controlled tube and a 200 mm temperature-controlled tube. Mouse, keyboard and compatible printers are quotation-dependent.

Selection and ordering

State the PRECETTA model, application, selected configuration, quantity and destination. Download the complete PDF for all verified specifications and configuration details. Confirm site utilities and sample compatibility before ordering.

Technical Information

Modes include optical rotation, specific rotation, concentration, sugar scale and custom calculations. Single, repeated and continuous measurement, automatic calibration, four-level access control, account enable/disable, audit records, electronic signatures, PDF/Excel export and MD5 validation are documented. Standard tube types described: 100 mm, 200 mm and 100 mm temperature-controlled; confirm the delivered tube set.