

- L** LABORATORY
- P** PROCESS
- S** SOFTWARE
- A** AUTOMATION

# UniPol 2020

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## Polarimeter

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## SPECIFICATIONS

## UniPol 2020

Measurement scales	°Optical rotation, °Specific rotation, °Z International Sugar Scale, % Concentration (g/mL, g/100mL, g/) 7 scales freely definable
Measuring range	± 360° / ± 259°Z
Resolution	0.001° / 0.01°Z
Precision	± 0.005° / ± 0.02°Z *
Reproducibility	± 0.005° / ± 0.02°Z
Sensitivity	Up to OD 2
Wavelength	589 nm (other on request)
Response time	6 sec. over the entire measuring range
Measuring tubes	Different models, 10 to 200 mm length; Material: glass, stainless steel, acid-proof stainless steel; stainless steel tubes
Temperature measurement	NTC Sensor
Temperature range	10 to 40 °C
Temperature regulation	Temperature regulation only with external water bath (specifications vary by model)
Light source	LED, interference filter
Display	LCD-Display, monochrom
Operation	Alpha numerical keyboard, 20 characters inclusive function keys
Interfaces / Communication	RS232 (2x), Parallel (1x), USB and Ethernet optional
Conformity	International Pharmacopoeia, OIML, ASTM, ICUMSA, Australian Standard K157

\* Standard conditions

### Polarimeter applications

Polarimetry is an instrumental analytical method using the optical activity of inorganic and organic compounds as a non-destructive measure of their concentration in a solution.

#### Applications often used

- Determination of concentration
- Purity analysis
- Quality control
- Scientific analysis

#### Typical applications of the models

- Raw, intermediate and final products of sugar cane and beet processing
- Food (sugar, starch, milk and food additives, sugar-free sweeteners like isomalt)
- Dairy products (lactose, sucrose, lactoglobulin, lactic acids)
- Pharmacy (reception and product control)