L LABORATORY
P PROCESS
S SOFTWARE
A AUTOMATION

SCHMIDT HAENSCH
innovators by tradition since 1864

UniPol V

Polarimeter

The fully automatic basic circle polarimeter with excellent price performance ratio

SPECIFICATIONS	UniPol V
Measurement scales	°Optical rotation, °Specific rotation, °Z International Sugar Scale, % Concentration (g/mL, g/100mL, g/L) 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, 882 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	7" Touchscreen, 800 x 480 Pixel, 16 Bit color
Operation	Touchscreen, keyboard**, mouse**, barcode-reader**
Interfaces / Communication	Ethernet 10/100/1000, RS232, USB, WLAN**, Modbus**, Canbus**, Profibus**
Conformity	International Pharmacopoeia, OIML, ASTM, ICUMSA, Australian Standard K157

* Standard conditions
** Optional

Polarimeter applications

Polarimetry is an instrumental analytical method using the optical activity of inorganic and organic compounds as a non-destructive mea- sure 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)

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