

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
Measuring scales	°Optical rotation, °Specific rotation, °Z International Sugar Scale, % Concentration (g/mL, g/100 mL, g/L) 7 scales freely definable
Measuring range	± 89.9° (rotation offset of 90°, 180° or 270° possible) up to 259 °Z
Accuracy	± 0.003° / ± 0.009 °Z
Reproducibility / Precision	± 0.001° / ± 0.005 °Z
Resolution	0.001° / 0.01 °Z (0.001° Z on request)
Sensitivity	up to OD 3
Response time	max. 13 s
Sample temperature	10 to 40 °C
Ambient temperature	10 to 40 °C non-condensing
Temperature accuracy, resolution	± 0.1 °C, 0.01 °C
Temperature control range	Temperature regulation with circulation thermostat
Interfaces / Communication	RS232, USB A (2x), Ethernet, WLAN (by WLAN adapter)
Sample chamber	235 mm (for measuring tubes up to 200 mm)
Dimensions	650 x 315 x 160 mm (width x depth x height)
Weight	11.5 kg
Light source	LED, interference filter
Wavelengths	589 nm, 882 nm or 589 + 882 nm (others on request)
Power supply	88 - 264 VAC, 47 - 63 Hz
Current consumption	max. 0.4 A at 230 V
Software	Aquisys3
Display	7" Touchscreen, 800 x 480 Pixel, 16 Bit color
Peripherals / Operation	Touchscreen optional: keyboard, mouse, barcode-reader

Polarimeter applications

Polarimetry is an instrumental analytical method using the optical activity by 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 model

- 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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