

L LABORATORY

P PROCESS

S SOFTWARE

A AUTOMATION



**SCHMIDT
HAENSCH**
innovators by tradition since 1864

Saccharomat[®] V

Sugar Polarimeter

Our fully automatic quartz wedge sugar polarimeter provides continuous measurement with unrivaled accuracy and without the need for recalibration



Specifications	Saccharomat® V
Measuring scales	°Z International Sugar Scale
Measuring range	- 35 to + 105 °Z
Accuracy	± 0.006 °Z
Reproducibility / Precision	± 0.003 °Z
Resolution	0.01 °Z (0.001 °Z on request)
Sensitivity	up to OD 5
Response time	max. 4 s
Sample temperature	0 to 99 °C
Ambient temperature	10 to 40 °C non-condensing
Temperature accuracy, resolution	± 0.1 °C, 0.01 °C
Temperature Control Range	Automatic temperature compensation recommended. Temperature controlled tubes available on request
Interfaces / Communication	RS232, USB A (2x), Ethernet, WLAN (by WLAN adapter)
Sample chamber	235 mm (for measuring tubes up to 200 mm)
Dimensions	730 x 370 x 160 mm (width x depth x height)
Weight	18.8 kg
Light source	LED, interference filter
Wavelengths	587 nm, 882 nm or 587 + 882 nm
Power supply	90 - 240 V (50 - 60 Hz)
Current consumption	max. 1.2 A at 230 V
Software	Aquisys2
Display	7" TFT Touchscreen, 800 x 480 Pixel, 16 Bit colors
Peripherals / Operation	Touchscreen optional: keyboard, mouse, barcode reader, remote via PC

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

- Sugar industry (raw-, intermediate and final products of sugar cane and beet processing)
- Food industry (reception control of sucrose)
- Pharmaceutical industry (reception control of sucrose)