

L LABORATORY

P PROCESS

S SOFTWARE

A AUTOMATION



**SCHMIDT
HAENSCH**
innovators by tradition since 1864

VariPol Series

Modular Polarimeter

The fastest in precision polarimetry, offers unrivaled accuracy, modularity and flexibility for pharmaceutical applications and more



21 CFR
Part 11 
COMPLIANCE *on request*

Specifications	VariPol C	VariPol B
Measuring scales	°Optical rotation, °Specific rotation, °Z International Sugar Scale, % Concentration (g/mL, g/100 mL, g/L), further scales freely definable	
Measuring range	± 89.9° (rotation offset of 90°, 180° or 270° possible)	
Accuracy*	± 0.01°	± 0.003°
Reproducibility / Precision*	± 0.01°	± 0.001°
Resolution	0.005°	0.001°
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	18 °C to 25 °C	10 °C to 40 °C
Interfaces / Communication	RS232, USB A (2x), Ethernet, WLAN (by WLAN adapter)	
Sample chamber	130 mm (for measuring tubes up to 100 mm)	
Dimensions	With display: 430 x 300 x 270 mm (width x height x depth) Without display: 430 x 300 x 160 mm (width x height x depth)	
Weight	10.5 kg	
Light source	LED, interference filter	
Wavelengths	589 nm, 589 + 365 nm or 589 + 405 nm	
Power supply	80 - 264 VAC; 47 - 63 Hz; max. 400 W	
Current consumption	max. 2.1 A at 230 V	
Software	Aquisys3 Premium / Aquisys3 Premium Pharma	
Display	optional 7" TFT Touchscreen, 800 x 480 Pixel, 16 Bit colors	
Peripherals / Operation	optional: Touchscreen, Keyboard, Mouse, Barcode Reader, printer, Remote via PC/Tablet/Smartphone	

*Standard conditions (t= 20 °C, p= 1013 mbar)

Combining over 160 years of experience with the endless strive for innovation

The VariPol takes the proven SCHMIDT + HAENSCH technology to a new level combining it with new innovations and all advantages of the VariFamily. The new design has nearly half the size of our earlier models packed with new features and highly integrated hardware. The experience of more than 160 years in polarimetry is reflected in all components like the fortified Aluminum core, the built in quality indicator of samples as well as the check of calibration standards. The 100mm sample room is optimal for the needs of pharmaceutical and chemical laboratories.

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Measurement data				
SampleID	Rot. α[D]	α [user][°]	Ext. tube [mm]	
17.10.2022 14:28	0.00156	0.00156	100	...
17.10.2022 14:28	0.00156	0.00156	100	...
17.10.2022 14:28	0.00156	0.00156	100	...
17.10.2022 14:28	0.00156	0.00156	100	...
17.10.2022 14:28	0.00156	0.00156	100	...

