

L LABORATORY

P PROCESS

S SOFTWARE

A AUTOMATION



**SCHMIDT
HAENSCH**
innovators by tradition since 1864

VariPol Series

Polarimeter – The next generation



SPECIFICATIONS	VariPol C	VariPol B
Measurement scales	° Optical rotation, ° Specific rotation, °Z International Sugar Scale, % Concentration (g/mL, g/100mL, g/L), further scales freely definable	
Measuring range	± 89.9°	
Specifications		
Precision	± 0.01° *	± 0.005° *
Repeatability	± 0.01°	± 0.005°
Resolution	0.005°	0.001°
Sensitivity	Up to OD 3	
Wavelength	1 or 2 wavelengths fixed, standard 589 nm, also available 365, 405, 436, 546	
Measuring time	6 to 8 sec. over the entire measuring range	
Measuring tubes	Up to 100 mm length; standard tubes, tubes with funnel or flow through; wetted parts: glass, stainless steel, Hastelloy	
Temperature measurement	Pt1000 sensor (device) / NTC sensor (Quartz control plates and tubes)	
Sample temperature range	10 °C to 40 °C	
Temperature precision / resolution	± 0.1 °C* / 0.01 °C	
Peltier temp. regulation of the sample room	18 °C to 25 °C	10 °C to 40 °C
Temperature stabilization time	25 °C to 20 °C, ± 0.1 °C, in 1 minute (valid for ambient temp. = 20 °C, with tube)	
Light source	LED, interference filter	
Display	7" Touchscreen**, 800 x 480 Pixel	
Operation	Touchscreen**, Keyboard***, Mouse***, Barcode Reader***, Remote via PC/Tablet/Smartphone***	
Interfaces / Communication	Ethernet 10/100/1000, RS232, USB, WLAN**	
Power	VAC 90-265; 50/60 Hz; 150 W max	
Conformity	International Pharmacopoeia, OIML, 21 CFR part 11, ICUMSA, Australian Standard K157	
Dimensions	With display: 430 x 300 x 270 mm (w x d x h); without display: 430 x 300 x 160 mm (w x d x h)	
Highlights	Basic Polarimeter especially designed for pharmaceutical applications; Modularity; Fast measuring; Peltier system for automatic temperature control; easy to calibrate; constant precision over the whole measuringrange, 21 CFR part 11 ready; energy saving durable LEDs; ELN; LIMS ready	

* Standard conditions (589 nm, $t_s=20^\circ\text{C}$, $t_A=23^\circ\text{C}$)

** Optional

*** Not included in delivery

Combining over 150 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 150 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.



Measurement data			
SampleID	Ret. [d°]	α user [°]	Ext.tube [mm]
ED101721228119	12.19100	12.19100	100
ED101721228125	12.19100	12.19100	100
ED101721228130	-0.00100	-0.00100	100
ED101721228140	0.00100	0.00100	100
ED101721228146	-0.01	-0.01	-0.00300
ED101721228150	-0.00300	-0.00300	100
ED101721228156	-0.00300	-0.00300	100



SCHMIDT + HAENSCH GmbH & Co.
 Waldstraße 80-81, 13403 Berlin, Germany
 Tel: + 49 (0 30) 417072-0, Fax: + 49 (0 30) 417072-99
 sales@schmidt-haensch.de, www.schmidt-haensch.com



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