

**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]
ED101722128119	12.19100	12.19100	100
ED101722128135	0.00100	0.00100	100
ED101722128150	-0.00100	-0.00100	100
ED101722128165	0.00100	0.00100	100
ED101722128180	0.00100	0.00100	100
ED101722128195	0.00100	0.00100	100
ED101722128210	0.00100	0.00100	100
ED101722128225	0.00100	0.00100	100
ED101722128240	0.00100	0.00100	100
ED101722128255	0.00100	0.00100	100
ED101722128270	0.00100	0.00100	100
ED101722128285	0.00100	0.00100	100
ED101722128300	0.00100	0.00100	100
ED101722128315	0.00100	0.00100	100
ED101722128330	0.00100	0.00100	100
ED101722128345	0.00100	0.00100	100
ED101722128360	0.00100	0.00100	100
ED101722128375	0.00100	0.00100	100
ED101722128390	0.00100	0.00100	100
ED101722128405	0.00100	0.00100	100
ED101722128420	0.00100	0.00100	100
ED101722128435	0.00100	0.00100	100
ED101722128450	0.00100	0.00100	100
ED101722128465	0.00100	0.00100	100
ED101722128480	0.00100	0.00100	100
ED101722128495	0.00100	0.00100	100
ED101722128510	0.00100	0.00100	100
ED101722128525	0.00100	0.00100	100
ED101722128540	0.00100	0.00100	100
ED101722128555	0.00100	0.00100	100
ED101722128570	0.00100	0.00100	100
ED101722128585	0.00100	0.00100	100
ED101722128600	0.00100	0.00100	100
ED101722128615	0.00100	0.00100	100
ED101722128630	0.00100	0.00100	100
ED101722128645	0.00100	0.00100	100
ED101722128660	0.00100	0.00100	100
ED101722128675	0.00100	0.00100	100
ED101722128690	0.00100	0.00100	100
ED101722128705	0.00100	0.00100	100
ED101722128720	0.00100	0.00100	100
ED101722128735	0.00100	0.00100	100
ED101722128750	0.00100	0.00100	100
ED101722128765	0.00100	0.00100	100
ED101722128780	0.00100	0.00100	100
ED101722128795	0.00100	0.00100	100
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ED101722128825	0.00100	0.00100	100
ED101722128840	0.00100	0.00100	100
ED101722128855	0.00100	0.00100	100
ED101722128870	0.00100	0.00100	100
ED101722128885	0.00100	0.00100	100
ED101722128900	0.00100	0.00100	100
ED101722128915	0.00100	0.00100	100
ED101722128930	0.00100	0.00100	100
ED101722128945	0.00100	0.00100	100
ED101722128960	0.00100	0.00100	100
ED101722128975	0.00100	0.00100	100
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ED101722129035	0.00100	0.00100	100
ED101722129050	0.00100	0.00100	100
ED101722129065	0.00100	0.00100	100
ED101722129080	0.00100	0.00100	100
ED101722129095	0.00100	0.00100	100
ED101722129110	0.00100	0.00100	100
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ED101722129200	0.00100	0.00100	100
ED101722129215	0.00100	0.00100	100
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ED101722129305	0.00100	0.00100	100
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ED101722129335	0.00100	0.00100	100
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ED101722129365	0.00100	0.00100	100
ED101722129380	0.00100	0.00100	100
ED101722129395	0.00100	0.00100	100
ED101722129410	0.00100	0.00100	100
ED101722129425	0.00100	0.00100	100
ED101722129440	0.00100	0.00100	100
ED101722129455	0.00100	0.00100	100
ED101722129470	0.00100	0.00100	100
ED101722129485	0.00100	0.00100	100
ED101722129500	0.00100	0.00100	100
ED101722129515	0.00100	0.00100	100
ED101722129530	0.00100	0.00100	100
ED101722129545	0.00100	0.00100	100
ED101722129560	0.00100	0.00100	100
ED101722129575	0.00100	0.00100	100
ED101722129590	0.00100	0.00100	100
ED101722129605	0.00100	0.00100	100
ED101722129620	0.00100	0.00100	100
ED101722129635	0.00100	0.00100	100
ED101722129650	0.00100	0.00100	100
ED101722129665	0.00100	0.00100	100
ED101722129680	0.00100	0.00100	100
ED101722129695	0.00100	0.00100	100
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ED101722129725	0.00100	0.00100	100
ED101722129740	0.00100	0.00100	100
ED101722129755	0.00100	0.00100	100
ED101722129770	0.00100	0.00100	100
ED101722129785	0.00100	0.00100	100
ED101722129800	0.00100	0.00100	100
ED101722129815	0.00100	0.00100	100
ED101722129830	0.00100	0.00100	100
ED101722129845	0.00100	0.00100	100
ED101722129860	0.00100	0.00100	100
ED101722129875	0.00100	0.00100	100
ED101722129890	0.00100	0.00100	100
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ED101722129950	0.00100	0.00100	100
ED101722129965	0.00100	0.00100	100
ED101722129980	0.00100	0.00100	100
ED101722129995	0.00100	0.00100	100



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