

- L** LABORATORY
- P** PROCESS
- S** SOFTWARE
- A** AUTOMATION

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°	
Resolution	0.001°	0.001°
Precision	± 0.01° *	± 0.005° *
Reproducibility	± 0.01°	± 0.005°
Sensitivity	Up to OD 3	
Wavelength	1 or 2 wavelengths fixed, standard 589 nm, others on request in the range 365 to 882 nm	
Measuring time	6 to 8 sec. over the entire measuring range	
Measuring tubes	Up to 100 mm length; standard tubes micro tubes, compact tubes Material: glass, stainless steel, acid-proof stainless steel	
Temperature measurement	NTC sensor	
Temperature range	10°C to 40°C	
Resolution / Precision	0.01°C / ± 0.1°C	
Peltier temp. regulation of the sample room	18°C to 25°C	10°C to 40°C
Light source	LED, interference filter	
Display / Operation	5" capacitive touchscreen, 800 x 480 Pixel	
Interfaces / Communication	RS232, SH connector, USB, Ethernet, WLAN**	
Conformity	International Pharmacopoeia, OIML, ICUMSA, Australian Standard K157	
Dimensions	430 x 300 x 160 mm (w x d x h)	
Highlights	Basic Polarimeter especially designed for pharmaceutical applications; Peltier system for automatic temperature control; easy to calibrate; 21 CFR part 11 ready; Software Aquisys optional; energy saving durable LEDs	

* Standard conditions
** Optional

Polarimeter Applications

Polarimetry is an instrumental analytical method using the optical activity of inorganic and organic compounds as a non-destructive measure of their concentration in a solution.

Applications often used

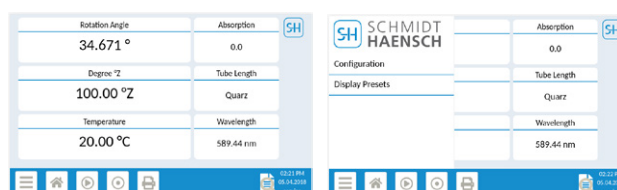
- Determination of concentration
- Purity analysis
- Quality control
- Scientific analysis

Typical applications of the model

- Pharmaceuticals (alkaloids, amino acids, organic compounds, vitamins, essential oils, antibiotics, serums)
- Chemicals (organic fluids, biopolymers, synthetic and organic polymers, benzene, acids, esters etc.)
- Research (analysis of molecular structure, investigation of kinetic reactions as function of time, distinction of optical isomers, monitoring changes in concentration of an optically active component in a reaction mixture as in enzymatic scission)



New polarimeter tubes



VariPol user interface