

# POLARTRONIC H-Series

## Automatic Polarimeters



### Features

- Continuous, Exceptionally-Fast Measurements
- Electronic Interface Of Analyzer And Optical Encoder For Extreme Precision
- No Primary Moving Parts For Ultimate Service Life
- Accuracy Of  $\pm 0.002^\circ$  Throughout Entire Measuring Range
- Halogen Or Spectral Light Sources
- Wide Selection Of Sample Cells
- Flow-Through Measurement w/ Specialized Sample Cells
- Automatic Temperature Compensation For Samples Cells w/ Sensors
- Large LCD Display With Full Menu Prompts
- American & European Pharmacopoeia Conformance
- GLP/GMP Conformance

**SCHMIDT + HAENSCH**

Opto-Electronic Measuring Instruments Since 1864



## POLARTRONIC H-Series Automatic Polarimeters

The S+H POLARTRONIC Automatic Polarimeters are truly in a class by themselves. Their measurement speed and accuracy are unmatched in the industry.

Polarimeters, by definition, determine the optical activity of a solution by means of a rotating analyzer and an optical encoder. S+H POLARTRONIC Automatic Polarimeters make use of a (S+H patented) direct, electronic interface between the analyzer and the optical encoder. This technique allows for exceptional speed in measurements and consistent accuracy across the entire measuring range. All other manufacturers employ mechanical linking of the analyzer and optical encoder. This results in much slower measuring time, inconsistent accuracy across the measurement range, and shortened service life due to mechanical wear and tear.

S+H H-Series Automatic Polarimeters feature a high accuracy of  $\pm 0.002^\circ$ . Instruments are available in single and multiple wavelength configurations. All models come standard with halogen or spectral light sources, menu-driven backlit LCD displays, password protection, printer and data ports, & optional USB ports.

A wide selection of S+H samples cells and quartz control plates are also available.

Schmidt + Haensch has been manufacturing precision opto-electronic instruments since 1864. All S+H instruments are manufactured in Germany.

Go with a name you can trust for the highest level in analytical instrumentation...choose Schmidt+Haensch.



## Technical Specifications

	HH8	HHX	HHW5	HN8	HNQW2	HNQW5
Cat. No.	46301	46303	46305	46307	46309	46311
Measuring Scale:	$^\circ$ Arc	$^\circ$ Arc	$^\circ$ Arc	$^\circ$ Arc	$^\circ$ Arc	$^\circ$ Arc
Measuring Range:	$\pm 85^\circ$	$\pm 85^\circ$	$\pm 85^\circ$	$\pm 85^\circ$	$\pm 85^\circ$	$\pm 85^\circ$
Resolution:	0.001	0.001	0.001	0.001	0.001	0.001
Accuracy:	$\pm 0.002$	$\pm 0.002$	$\pm 0.002$	$\pm 0.002$	$\pm 0.002$	$\pm 0.002$
Optical Wavelength(s) (STANDARD):	589nm	589nm	589nm	589nm	546nm & 589nm	546nm & 589nm
Optical Wavelength(s) (OPTIONAL): <small>NOTE: Optional wavelengths provided at no additional charges.</small>	N/A	405nm, 435nm, 546nm, 578nm, 633nm, or 822nm (Selection Of 1)	405nm, 435nm, 546nm, 578nm, 633nm, or 822nm (Selection Of 4)	N/A	N/A	365nm, 405nm, 435nm, 578nm, 633nm, or 822nm (Selection Of 3)
Wavelength Selection:	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Measuring Light Source:	Halogen	Halogen	Halogen	Sodium	Mercury & Sodium	Mercury, Sodium, & Halogen
Analyzer/Optical Encoder Link:	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Measuring Time:	< 3.0 Sec.	< 3.0 Sec.	< 3.0 Sec.	< 3.0 Sec.	< 3.0 Sec.	< 3.0 Sec.
Sensor:	Hi-Res CCD	Hi-Res CCD	Hi-Res CCD	Hi-Res CCD	Hi-Res CCD	Hi-Res CCD
Temperature Compensation:	For Sample Cells w/Sensors	For Sample Cells w/Sensors	For Sample Cells w/Sensors	For Sample Cells w/Sensors	For Sample Cells w/Sensors	For Sample Cells w/Sensors
Sample Cell Length (Maximum):	200mm	200mm	200mm	200mm	200mm	200mm
Zero Calibration:	Air / Empty Sample Cell	Air / Empty Sample Cell	Air / Empty Sample Cell	Air / Empty Sample Cell	Air / Empty Sample Cell	Air / Empty Sample Cell
Display:	LCD, 8x16 Characters	LCD, 8x16 Characters	LCD, 8x16 Characters	LCD, 8x16 Characters	LCD, 8x16 Characters	LCD, 8x16 Characters
Keypad:	12-Key Alphanumeric	12-Key Alphanumeric	12-Key Alphanumeric	12-Key Alphanumeric	12-Key Alphanumeric	12-Key Alphanumeric
Password Protection:	Yes	Yes	Yes	Yes	Yes	Yes
Languages:	English & German	English & German	English & German	English & German	English & German	English & German
Printer Interface:	Centronics (Parallel)	Centronics (Parallel)	Centronics (Parallel)	Centronics (Parallel)	Centronics (Parallel)	Centronics (Parallel)
Computer Port:	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
USB Port:	Optional	Optional	Optional	Optional	Optional	Optional
Power Requirements:	90-240V AC, 50/60Hz	90-240V AC, 50/60Hz	90-240V AC, 50/60Hz	90-240V AC, 50/60Hz	90-240V AC, 50/60Hz	90-240V AC, 50/60Hz
Dimensions:	735 x 425 x 200mm	735 x 425 x 200mm	735 x 425 x 200mm	735 x 425 x 200mm	735 x 425 x 200mm	735 x 425 x 200mm
Weight:	28.0kg	28.0kg	28.0kg	28.0kg	28.0kg	28.0kg
Manufactured In:	Germany	Germany	Germany	Germany	Germany	Germany

## Applications...

Quality Control Of Original, Intermediate, & Final Products ● Determination Of Concentration & Purity Control ● Purity Control & Substance Concentration Determination Conforming To U.S. & European Pharmacopoeia Standards ● Analysis Of Sugar & Albumin In Urine ● Hormone/Enzymology/Toxicology Research ● Purity Control & Identity Of Essential Oils ● Purity Control & Determination Of Organic Fluids & Inorganic Ions ● Analysis Of Optically Active Compounds ● Determination Of Configuration Changes Of Macromolecules In Solutions

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## Markets...

Food ● Beverage ● Sugar ● Clinical ● Medical ● Pharmaceutical ● Cosmetic ● Chemical

### Please refer to our additional brochures for the following:

S+H VISPOL-Series Manual Polarimeters  
S+H UniPol-L Automatic Polarimeter  
S+H POLARTRONIC N-Series Automatic Polarimeters/Saccharimeters  
S+H POLARTRONIC M-Series Automatic Polarimeters/Saccharimeters  
S+H SACCHAROMAT Automatic Saccharimeters  
S+H Purity Analyzers  
S+H AutoFilt Semi-Automatic Pressure Filtration System  
S+H Sample Cells & Quartz Control Plates