

POLARTRONIC M-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 $\pm 0.005^\circ$ / $\pm 0.02^\circ Z$ 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



SCHMIDT + HAENSCH

POLARTRONIC M-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 M-Series Automatic Polarimeters feature a high accuracy of $\pm 0.005^\circ$. 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

	MHZ8		MHX		MHW2		MHW5		MN8		MNQW2	
Cat. No.	46201		46203		46205		46207		46209		46211	
Measuring Scale:	$^\circ$ Arc	$^\circ$ Z (ISS)	$^\circ$ Arc	$^\circ$ Z (ISS)	$^\circ$ Arc	$^\circ$ Z (ISS)	$^\circ$ Arc	$^\circ$ Z (ISS)	$^\circ$ Arc	$^\circ$ Z (ISS)	$^\circ$ Arc	$^\circ$ Z (ISS)
Measuring Range:	$\pm 85^\circ$	$\pm 230^\circ$ Z	$\pm 85^\circ$	$\pm 230^\circ$ Z	$\pm 85^\circ$	$\pm 230^\circ$ Z	$\pm 85^\circ$	$\pm 230^\circ$ Z	$\pm 85^\circ$	$\pm 230^\circ$ Z	$\pm 85^\circ$	$\pm 230^\circ$ Z
Resolution:	0.002	0.01 $^\circ$ Z	0.002	0.01 $^\circ$ Z	0.002	0.01 $^\circ$ Z	0.002	0.01 $^\circ$ Z	0.002	0.01 $^\circ$ Z	0.002	0.01 $^\circ$ Z
Accuracy:	± 0.005	$\pm 0.02^\circ$ Z	± 0.005	$\pm 0.02^\circ$ Z	± 0.005	$\pm 0.02^\circ$ Z	± 0.005	$\pm 0.02^\circ$ Z	± 0.005	$\pm 0.02^\circ$ Z	± 0.005	$\pm 0.02^\circ$ Z
Optical Wavelength(s) (STANDARD):	589nm		589nm		589nm		589nm		589nm		546nm & 589nm	
Optical Wavelength(s) (OPTIONAL): <small>NOTE: Optional wavelengths provided at no additional charges.</small>	N/A		405nm, 435nm, 546nm, 578nm, or 633nm (Selection Of 1)		405nm, 435nm, 546nm, 578nm, or 633nm (Selection Of 2)		405nm, 435nm, 546nm, 578nm, or 633nm (Selection Of 4)		N/A		N/A	
Wavelength Selection:	N/A		Automatic		Automatic		Automatic		Automatic		Automatic	
Measuring Light Source:	Halogen		Halogen		Halogen		Halogen		Sodium		Mercury & Sodium	
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

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 H-Series Automatic Polarimeters
S+H SACCHAROMAT Automatic Saccharimeters
S+H Purity Analyzers
S+H AutoFilt Semi-Automatic Pressure Filtration System
S+H Sample Cells & Quartz Control Plates

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