

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 $\pm 0.005^\circ$ 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 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 | $^\circ$ 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: | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Accuracy: | ± 0.005 | ± 0.005 | ± 0.005 | ± 0.005 | ± 0.005 | ± 0.005 |
| 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

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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 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