



**LabService
Providers**

LABORATORY EQUIPMENT & INSTRUMENTATION
PRODUCT CATALOGUE

**POLARIMETERS
REFRACTOMETERS
DENSITY METERS**

POLARIMETERS, REFRACTOMETERS, DENSITY METERS



VARIPOL SERIES POLARIMETERS

- Compact, fast measuring, precise laboratory polarimeter for pharmaceutical and chemical laboratories.
- 430 x 300 x 160 mm (without optional touch screen display).
- Measurement scales: ° Optical rotation, ° Specific rotation, °Z International Sugar Scale, % Concentration (g/mL, g/100mL, g/L), further scales definable.
- Measuring range: $\pm 89.9^\circ$
- Resolution: 0.005° (VariPol C); 0.001° (VariPol B).
- Precision: $\pm 0.01^\circ$ (VariPol C); $\pm 0.005^\circ$ (VariPol B).
- Repeatability: $\pm 0.01^\circ$ (VariPol C); $\pm 0.005^\circ$ (VariPol B).
- Sensitivity: up to OD 3.
- Wavelength: 1 or 2 wavelengths fixed, standard 589 nm. Also available 365, 405, 436, 546, 578.
- Measurement time: 6 to 8 seconds over entire measuring range.
- Measuring tubes: Up to 100 mm length; standard tubes micro tubes, compact tubes. Also available in glass, stainless steel, titan.
- Temperature measurement: Pt1000 sensor (device) / NTC sensor (Quartz control plates and tubes).
- Temperature range: 10°C to 40°C .
- Resolution / Precision: $\pm 0.01^\circ\text{C}$ / $\pm 0.1^\circ\text{C}$.
- Peltier temperature regulation: 18°C to 25°C (VariPol C); 10°C to 40°C (VariPol B).
- Fortified aluminium core.
- Integrated quality and calibration checker.
- Peltier system for automatic, precise temperature control.
- Automatic wavelength calibration for measurement precision.
- Gear free polarisation detection for constant SuH precision over the entire measurement range.
- Rotatable sample tubes and quartzes standards for cleaning and performance validation.
- Tension free design for fast cleaning of sample tubes.
- Seamless sample room for fast rinsing without deposits.
- Optimised electronic components for low power consumption and standby mode.
- Energy saving durable LED's - maintenance free during the instrument's life - for reduced downtime and maintenance costs.
- 21 CFR part 11 ready.
- International Pharmacopoeia, OIML, ICUMSA, Australian Standard K157 compliant.



POLARTRONIC M TOUCH

- High performance, fully automatic circle polarimeter for continuous measurement.
- Modular, flexible and user friendly.
- Robust design suitable for tough environments.
- High resolution ($0.001^\circ/0.01^\circ\text{Z}$).
- Highly accurate ($\pm 0.005^\circ$ / $\pm 0.015^\circ\text{Z}$) and reproducible measuring results over the entire measuring range ($\pm 360^\circ$ / $\pm 259^\circ\text{Z}$).
- Robust metal housing.
- Large 7" TFT touchscreen.
- Long lasting LED light source.
- Pre-installed user methods.
- Internal measuring data storage.
- Extremely low noise.
- Easy to calibrate via certified Quartz Control Plates (SQCP, TQCP).
- Remote diagnostics and servicing.
- Documentation according to GLP/GMP, 21 CFR part 11 ready, corresponding software optionally available.
- Audit trail function (history logging), report generation, electronic signature, encrypted data storage and archiving.
- Data transfer to Excel.



Schmidt + Haensch offer a wide range of polarimeter accessories including: sample tubes and sample room covers, volume handling and flow through accessories, quartz control plates etc.



VARIREF REFRACTOMETER

- Next generation refractometer.
- Modular and user friendly.
- 310 x 220 x 235 mm (without display); 310 x 220 x 150 mm (with display).
- Single sample or flow through measurement (with optional compartment door).
- Ambient T-Control (ATC) takes temperature variations and the ambience of the instrument into account.
- 5" or 7" touchscreen optional.
- Double isolated peltier system provides rapid temperature control.
- Fast and precise measurements.
- Flat shape ideal for easy cleaning.
- Optional covered version available for optimal product life.
- Remote operation via PC/tablet/smartphone available.
- LED light source.
- Multi-point calibration for the entire measurement range ensures optimal precision.
- Virtually maintenance free – self checking for cleanliness, temperature, calibration etc.
- 21 CFR part 11 ready; ELN; LIMS ready.
- Conformance: International Pharmacopoea, ASTM, AOAC, DIN, FDA, ICUMSA.



VARICONTROL

- Control and display unit: several instruments can be controlled from a single platform.
- Optimal connection to internal systems and auxiliary devices.
- Suitable for S+H Polartronic Touch Series, VariPol, VariRef.
- 250 x 175 x 170 mm.
- Intuitive interface based on the three-click concept.
- Statistically analyse measurement data in real-time or retrospectively.
- 7" touchscreen.
- Remote operation via PC/tablet/smartphone available.
- 10 years data storage.
- 21 CFR Part 11 ready.



DIGITAL HANDHELD REFRACTOMETER

- Digital, handheld refractometer (Brixmeter), ideal for field analysis.
- 2 measurement scales: Brix with automatic temperature correction (ATC);
- Refractive Index.
- 115 x 54 x 30 mm.
- Weight: 85 Grams (without batteries).
- Easy to use and reliable.
- Applications include honey, wine, saline, glycol, DEF.
- Automatic temperature compensated brix value within +5 to 70°C.
- Application specific scales.
- 5-digit, full view LCD screen for measurement of liquid media from low to high viscosity.
- Results displayed in 2 seconds.
- Holster carry case optional.

VISUAL HANDHELD REFRACTOMETER

- Visual, handheld refractometer, ideal for field analysis of fruit and vegetables as well as the rapid, on-the-spot control of process streams.
- Easy to use for the determination of the refractive index of liquid media of low or high viscosity.
- Various models available: 4 ranges Sucrose (%Brix); % Oechsle; % Salinity; Urine Scale (g/dl).
- Resolution and precision - model and user dependent.



Schmidt + Haensch offer a wide range of refractometer accessories including: digital thermometer, sample room cover, flow through compartment door, certified reference materials (CRM)..

EDM SERIES DENSITY METERS

- For continuous density measurement in a range of applications.
- 320 x 235 x 218 mm.
- Can be operated as a stand-alone device or in combination with a large colour-TFT
- High precision, fast temperature measurement.
- Facilitates achieving a consistent manufacturing process and tighter tolerances on results – for reduced costs and enhanced quality levels.
- Rugged, sealed, single-piece system for long life and durability.
- Intuitive software and large colour-TFT touchscreen interface for
- reduced protocol setup times and powerful troubleshooting capabilities.
- Automatic detection of gas bubbles.
- Accurate temperature control programs for use in difficult environmental conditions.
- Integrated reference oscillator.
- Multiple reference alcohol tables.
- Precision density resolution.
- USB, Ethernet, Serial output.
- Optional moisture and air pressure sensor.
- Can be combined with other S+H laboratory instruments such as refractometers to facilitate complex analyses.

EDM 5000

- Measuring time: < 30 sec.
- Min. sample volume: approx. 1.5 ml.
- Filling: by injection.

Density

- Resolution: 0.00001 g/cm³
- Precision: ± 0.00005 g/cm³
- Repeatability: ± 0.00002 g/cm³

Temperature

- Resolution: 0.001 °C
- Precision: ± 0.03 °C
- Repeatability: ± 0.01 °C

EDM 4000+

- Measuring time: < 10 sec.
- Min. sample volume: approx. 1.5 ml.
- Filling: by injection.

Density

- Resolution: 0.0001 g/cm³
- Precision: ± 0.0001 g/cm³
- Repeatability: ± 0.0001 g/cm³

Temperature

- Resolution: 0.01 °C
- Precision: ± 0.05 °C
- Repeatability: ± 0.02 °C



Schmidt + Haensch offer a range of density meter accessories including: connecting tubes, luer adapters, dry air cartridges.



**LabService
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a wide range of laboratory environments.**

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QUALITY
ISO 9001:2015
NSAI Certified