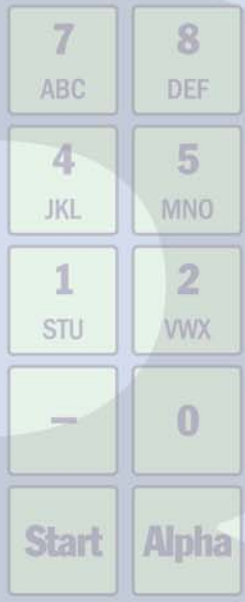


ATR ST plus

ATR-ST Series Automatic Refractometers

Method 01
03/01/2007 23:58
1.39032 RI
20.00 °C
35.00 Brix
Act=20.00 °C
Start
Measurement



Teflon® Prism Well Insert

SCHMIDT + HAENSCH



Features

- Compact, Single Instrument Design
- Teflon® Prism Well Insert For Testing Organic Solvents
- Wide Brix & R.I. Ranges
- Accuracy Up To ± 0.02 Brix / ± 0.00003 R.I.
- Automatic Temperature Compensation
- Large LCD Display With Full Menu Prompts & User Profiles

SCHMIDT + HAENSCH

Opto-Electronic Measuring Instruments Since 1864



ATR-ST Series Automatic Refractometers

The ATR-ST Series Automatic Refractometers from Schmidt+Haensch offer the core features of the higher-end ATR-Series instruments, but at an economy budget level. The price performance ratio of these refractometers is exceptional. The small footprint of the single instrument design will easily fit in any laboratory.

All models feature a removable Teflon® prism well insert. This feature is exceptionally useful for applications involving the measurement of organic solvents and other caustic solutions, which are extremely harmful to the prism sealant for all other types of refractometers.

ATR-ST Series models come standard with automatic temperature compensation, long-lasting LED light sources (100,000 hours), linear high-resolution CCD sensors, menu-driven backlit LCD displays, 4 user profiles, password protection, printer and data ports, & optional USB ports.

The included software package and RS-232C cable make it very easy to connect the ATR-ST Series models to computers for collection of measurement data or for remote operation with full command of all functions. As new software versions are released, the instruments can also receive flash updates.

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

		ATR-ST	ATR-ST plus	ATR-ST S plus
Cat. No.		45001	45001P	45001SP
Measuring Range	RI:	1.3320 - 1.5230	1.30000 - 1.54000	1.28000 - 1.54000
	Brix:	0.0 - 95.0%	0.00 - 100.00%	0.00 - 100.00%
Resolution	RI:	0.0001	0.00002	0.00001
	Brix:	0.05%	0.02%	0.01%
Accuracy	RI:	±0.0001	±0.00005	±0.00003
	Brix:	±0.05%	±0.03%	±0.02%
Optical Wavelength:		589.3nm	589.3nm	589.3nm
Measuring Light Source:		LED	LED	LED
Sensor:		Linear Hi-Res CCD	Linear Hi-Res CCD	Linear Hi-Res CCD
Prism:		Synthetic Sapphire	Synthetic Sapphire	Synthetic Sapphire
Prism Sealant:		Viton®	Viton®	Viton®
Prism Assembly Insert:		Teflon®	Teflon®	Teflon®
Stage:		Stainless Steel	Stainless Steel	Stainless Steel
Working Temperature:		+5 to +50°C	+5 to +50°C	+5 to +50°C
Ambient Temperature:		+10 to +40°C	+10 to +40°C	+10 to +40°C
Temperature Correction Range:		+10 to +40°C	+5 to +50°C	+5 to +50°C
Temperature Sensor Accuracy:		±0.03°C	±0.03°C	±0.03°C
Temperature Control:		N/A	N/A	N/A
Temperature Control Stability:		N/A	N/A	N/A
Flow Through Measurement:		N/A	N/A	N/A
Sample Quantity (Standard):		>2.0mL	>2.0mL	>2.0mL
Sample Quantity (Flow Through):		N/A	N/A	N/A
Zero Calibration Liquid:		Distilled Water	Distilled Water	Distilled Water
Custom Calibration Liquid:		Liquid Standard	Liquid Standard	Liquid Standard
Calibration History:		Yes	Yes	Yes
Display:		LCD, 16x16 Characters	LCD, 16x16 Characters	LCD, 16x16 Characters
Keypad:		20-Key Alphanumeric	20-Key Alphanumeric	20-Key Alphanumeric
Password Protection:		Yes	Yes	Yes
Languages:		English & German	English & German	English & German
Printer Interface:		Centronics (Parallel)	Centronics (Parallel)	Centronics (Parallel)
Computer Port:		RS-232C	RS-232C	RS-232C
USB Port:		Optional	Optional	Optional
Programmable Scales:		10	10	10
Power Requirements:		90-240V AC, 50/60Hz	90-240V AC, 50/60Hz	90-240V AC, 50/60Hz
Power Supply:		5V DC	5V DC	5V DC
Dimensions	Control: Sensor:	290 x 220 x 120mm	290 x 220 x 120mm	290 x 220 x 120mm
Weight	Control: Sensor:	3.0kg	3.0kg	3.0kg
Manufactured In:		Germany	Germany	Germany



Model ATR-ST



Model ATR-ST plus



Model ATR-ST S plus

Applications...

Refractive Index Determination • Dry Substance Determination • Mass Percent Determination • Brix Measurement • Optional Scales (Oechsle, Zeiss, Fat, Baumé, etc.) • ASTM Methods 1218, 1747, etc. • Qualitative Analysis (Identification Of Samples) • Quantitative Analysis Of Dissolved Solids In Water Or Other Solvents • Quantitative Analysis Of Sugars, Solvents, Glycol, Fat, Oechsle, etc.

Markets...

Food • Beverage • Sugar • Clinical • Medical • Pharmaceutical • Cosmetic • Chemical • Petrochemical

Please refer to our additional brochures for the following:

S+H ATR-SW Series Automatic Refractometers
S+H ATR-W1 Series Automatic Refractometers
S+H ATR-W2 Series Automatic Refractometers
S+H DSR-λ Automatic Multiple Wavelength Refractometer
S+H iPR-Series Process Refractometers

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