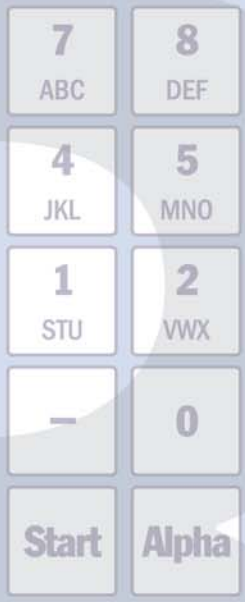


# ATR W1

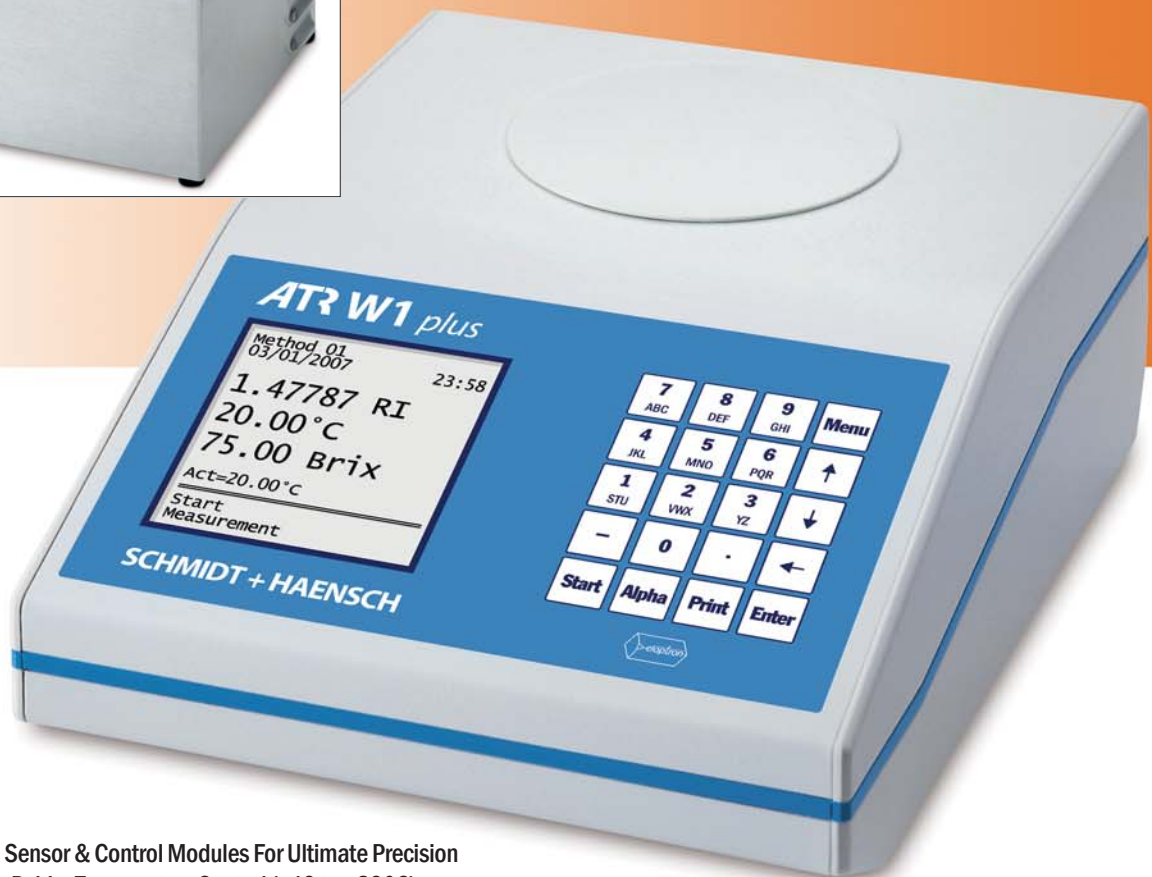
## ATR-W1 Series Automatic Refractometers

Method 01  
03/01/2007 23:58  
1.45348 RI  
20.00 °C  
65.00 Brix  
Act=20.00 °C  
Start  
Measurement



Sensor Module

### SCHMIDT + HAENSCH



#### Features

- Separate Sensor & Control Modules For Ultimate Precision
- Electronic Peltier Temperature Control (+10 to +80°C)
- Wide Brix & R.I. Ranges
- Accuracy Up To  $\pm 0.02$  Brix /  $\pm 0.00002$  R.I.
- Temperature Control Stability Of  $\pm 0.02$  °C
- Large LCD Display With Full Menu Prompts & User Profiles

**SCHMIDT + HAENSCH**  
Opto-Electronic Measuring Instruments Since 1864



# SCHMIDT + HAENSCH

## ATR-W1 Series Automatic Refractometers

The ATR-W1 Series Automatic Refractometers from Schmidt+Haensch offer the most advanced features and performance available in an analytical instrument. The separate stainless steel sensor module is extremely robust and chemically resistant against most aggressive media and external temperature variation. Separate modules ensure precise temperature control and enhanced reproducibility.

Both models feature electronic Peltier temperature control (+10 to +80°C) to deliver the highest level of precision in an automatic refractometer. With accuracy of ±0.03°C, a temperature is easily set and the refractometer quickly heats or cools to the target level before conducting measurements.

ATR-W1 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-W1 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-W1	ATR-W1 plus
Cat. No.		45006	45006P
Measuring Range	RI:	1.33200 - 1.53200	1.33200 - 1.53200
	Brix:	0.00 - 95.00%	0.00 - 100.00%
Resolution	RI:	0.00002	0.00001
	Brix:	0.02%	0.01%
Accuracy	RI:	±0.00004	±0.00002
	Brix:	±0.04%	±0.02%
Optical Wavelength:		589.3nm	589.3nm
Measuring Light Source:		LED	LED
Sensor:		Linear Hi-Res CCD	Linear Hi-Res CCD
Prism:		Synthetic Sapphire	Synthetic Sapphire
Prism Sealant:		Viton®	Viton®
Prism Assembly Insert:		N/A	N/A
Stage:		Stainless Steel	Stainless Steel
Working Temperature:		+10 to +80°C	+10 to +80°C
Ambient Temperature:		+10 to +40°C	+10 to +40°C
Temperature Correction Range:		+10 to +50°C	+10 to +50°C
Temperature Sensor Accuracy:		±0.03°C	±0.03°C
Temperature Control:		Electronic Peltier	Electronic Peltier
Temperature Control Stability:		±0.02°C	±0.02°C
Flow Through Measurement:		N/A	N/A
Sample Quantity (Standard):		>2.0mL	>2.0mL
Sample Quantity (Flow Through):		N/A	N/A
Zero Calibration Liquid:		Distilled Water	Distilled Water
Custom Calibration Liquid:		Liquid Standard	Liquid Standard
Calibration History:		Yes	Yes
Display:		LCD, 16x16 Characters	LCD, 16x16 Characters
Keypad:		20-Key Alphanumeric	20-Key Alphanumeric
Password Protection:		Yes	Yes
Languages:		English & German	English & German
Printer Interface:		Centronics (Parallel)	Centronics (Parallel)
Computer Port:		RS-232C	RS-232C
USB Port:		Optional	Optional
Programmable Scales:		10	10
Power Requirements:		90-240V AC, 50/60Hz	90-240V AC, 50/60Hz
Power Supply:		15V DC	15V DC
Dimensions	Control:	290 x 220 x 120mm	290 x 220 x 120mm
	Sensor:	200 x 160 x 140mm	200 x 160 x 140mm
Weight	Control:	3.0kg	3.0kg
	Sensor:	4.5kg	4.5kg
Manufactured In:		Germany	Germany



Model ATR-W1



Model ATR-W1 plus



Sensor Module

## 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-ST Series Automatic Refractometers
- S+H ATR-SW 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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