

**L** LABORATORY

**P** PROCESS

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# ATR-ST ATR-BR

Refractometer



SPECIFICATIONS	ATR-ST	ATR-BR
Measuring scales	Refractive Index (RI), Sucrose (%Brix), others on request	
Measuring range	1.3320 - 1.5320 RI / 0 - 95% Brix	1.32000 - 1.54000 RI / 0 - 100% Brix
Resolution	0.0001 RI / 0.05% Brix	0.00001 RI / 0.01% Brix
Precision	± 0.0001 RI / ± 0.05% Brix	Meas. Range 1.32 -1.44: ± 0,00002 RI / ± 0.01% Brix Meas. Range 1.44 -1.54: ± 0,00003 RI / ± 0.01% Brix
Reproducibility	± 0.0001 RI / ± 0.05% Brix	± 0.00001 RI / ± 0.01% Brix
Ambient temperature	+ 10° to + 40°C	
Automatic temperature compensation	+ 5° to + 50°C Brix	
Temperature measurement	NTC sensor for measurement of sample temperature placed inside the prism	
Temperature control sample	No control	
Measurement mode	Single measurement	
Prism	Sapphire	
Light source / wavelength	LED, interference filter 589 nm	
Display	Back-lit LCD, 16x16 characters	
Operation	20 key membrane including function keys	
Interfaces	RS232 C serial and parallel	
Conformity	International Pharmacopoea, ASTM, AOAC, DIN, FDA, ICUMSA and others	
Highlights	Stand-alone device; High quality and precision; Very stable measurements; User friendly operation; Excellent price-performance ratio ATR-ST: Very broad sample room; For aggressive samples PTFE sample room insert is included in delivery ATR-BR: Very flat and small sample room for easy cleaning	
Weight / dimensions	3.0 kg; 220 x 290 x 120 mm (width x depth x height)	

## Refractometer applications

The applications of Refractometers are highly diverse.

### Applications often used

- Determination of refractive index
- Determination of dry substance
- Determination of mass percent
- Brix measurement
- Qualitative analysis – identification of samples
- Quantitative analysis of dissolved solids like sugars, ...

### Typical applications of the models

- Sugar industry
- Beverages
- Food industry
- Chemical industry



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### Schmidt + Haensch GmbH & Co.

Waldstraße 80-81, 13403 Berlin, Germany  
Tel: + 49 (0 30) 417072-0, Fax: + 49 (0 30) 417072-99  
sales@schmidt-haensch.de, www.schmidt-haensch.com



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