

- L** LABORATORY
- P** PROCESS
- S** SOFTWARE
- A** AUTOMATION



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# ATR-BR

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## Refractometer

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## SPECIFICATIONS

## ATR-BR

Measuring scales	Refractive Index (RI), Sucrose (%Brix), others on request
Measuring range	1.32000 - 1.54000 RI / 0 - 100% Brix
Resolution	0.00001 RI / 0.01% Brix
Precision	Meas. Range 1.32 -1.44: $\pm 0,00002$ RI / $\pm 0.01\%$ Brix Meas. Range 1.44 -1.54: $\pm 0,00003$ RI / $\pm 0.01\%$ Brix
Reproducibility	$\pm 0.00001$ RI / $\pm 0.01\%$ 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; 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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