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ATR V

Compact Refractometer

The stand-alone critical angle refractometer with excellent price performance ratio

SPECIFICATIONS	ATR V
Measuring scales	Sucrose (Brix), others on request
Measuring range	1.32000 - 1.54000 RI / 100 Brix
Resolution	0.00001 RI / 0.01 Brix
Precision	Measuring range 1.32 - 1.44: ± 0.00002 RI / ± 0.01 Brix * Measuring range 1.44 - 1.54: ± 0.00003 RI / ± 0.01 Brix *
Reproducibility	± 0.00001 RI / ± 0.01 Brix
Ambient temperature	+ 10 to + 40 °C
Automatic temperature compensation	+ 5 to + 50 °C
Temperature measurement	NTC sensor for measurement of sample temperature placed inside the prism
Technical control sample	No control
Measurement mode	Single measurement
Prism	Sapphire
Light source / wavelength	LED, interference filter 589 nm
Display	7" Touchscreen**, 800 x 480 Pixel
Interfaces	1 x RS232 C serial and parallel
Standard model	ATR V
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

* Standard conditions (589 nm, 20 °C)

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 in water or other solvents

Typical applications of the model

- Sugar industry
- Beverage industry
- Food industry
- Chemical industry

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