

L LABORATORY

P PROCESS

S SOFTWARE

A AUTOMATION



**SCHMIDT
HAENSCH**
innovators by tradition since 1864

ATR-BR

Refractometer

The generalist
with excellent price
performance ratio



SPECIFICATIONS

ATR-BR

| | |
|------------------------------------|---|
| Measuring scales | Refractive Index (RI), 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 / $\pm 0.01\%$ Brix * Measuring range 1.44 - 1.54: ± 0.00003 RI / $\pm 0.01\%$ Brix * |
| Reproducibility | ± 0.00001 RI / $\pm 0.01\%$ 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 | Back-lit LCD, 16 x 16 characters |
| Operation | 20 key membrane including function keys |
| Interfaces | 1 x RS232 C serial and parallel |
| Standard model | ATR-BR |
| 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

