L LABORATORY

P PROCESS

S SOFTWARE

A AUTOMATION

SCHMIDT HAENSCH

innovators by tradition since 1864

iPR B^4

Basic Inline Process Refractometer

Our entry-level process refractometer with wide measuring range for various applications in food, pharma and more

SPECIFICATIONS

Basic Inline Process Refractometer

Item Number
15510

Measurement principle	Total internal reflection refractometer
Measuring scales	Sucrose (Brix) (already included) Up to 4 scales freely definable
Measuring range	1.32000 - 1.51000 RI / 0 - 85 Brix
Accuracy	± 0.00007 RI / ± 0.05 Brix at 25°C
Resolution	0.00001 RI / 0.01 Brix
Reproducibility	0.00005 RI / 0.036 Brix
Process temperature	- 10 to + 90 °C
Ambient temperature	- 10 to + 50 °C
Temperature sensor accuracy	± 0.1 °C
Temperature measurement	NTC sensor for measurement of sample temperature placed inside the prism
Process pressure	0 - 10 bar
Interfaces standard	2 insulated 4 - 20 mA analog outputs 2 digital output switch (up to 1 A) 1 serial output (RS232)
Interface optional	1 serial output (RS485 or USB)
Mechanical interfaces standard	VariVent type N 1.4404 Stainless steel
Mechanical interface optional	APV 1.4404 Stainless steel
Dimensions, weight	245 mm x Ø 136 mm, 5300 g
IP class	IP69K
Light source, wavelength	LED, 589 nm
Power supply	24 V DC
Current consumption	< 120 mA (20 - 28 V)
Wetted parts	Sapphire, 1.4404 Stainless steel
Housing material	1.4404 Stainless steel
Available immersion depths	0 - 90 mm

Refractometer applications

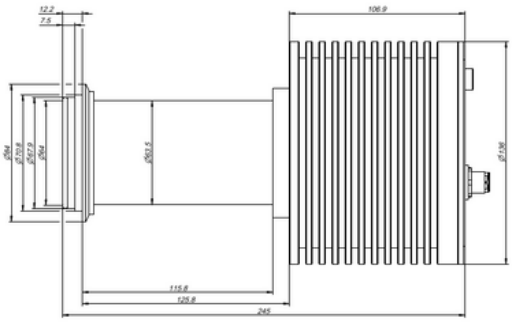
The applications of Refractometers are highly diverse.

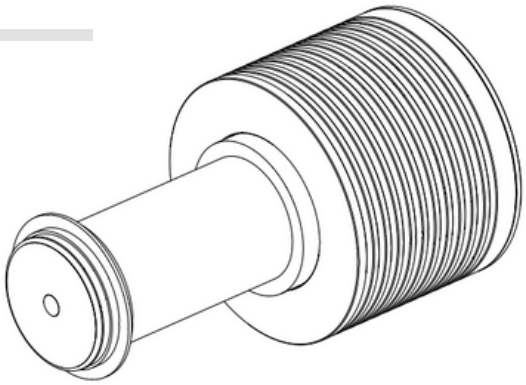
Applications often used

- Determination of refractive index
- Determination of dry substance
- Determination of mass percent
- Brix measurement
- Standard scales (Brix, Oechsle, Zeiss, Fat, Honey)
- with automatic temperature compensation
- Qualitative analysis – identification of samples
- Interface detection
- Quantitative analysis of dissolved solids in water or other solvents
- Quantitative analysis of sugars, solves, glycol, fat, oechsle

Typical industries of the model

- Sugar industry
- Beverages
- Food (oil from palm, corn, sunflower, soya)
- Essential oil
- Chemical industry





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