

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

iPR C²

Compact Inline Process Refractometer



SPECIFICATIONS

iPR C²

Measuring scales	Refractive Index (RI), Sucrose (Brix) (already included) Up to 4 scales freely definable
Measuring range	1.3200 - 1.4209 RI / 0 - 50 Brix
Resolution	0.0001 RI / 0.05 Brix
Accuracy	± 0.0002 RI / ± 0.15 Brix at 25°C
ATC range Brix	+10 to +50°C
Process temperature	- 10° to + 65°C
Process pressure	max. 30 bar
Temperature measurement	NTC sensor for measurement of sample temperature placed inside the prism
Interfaces	1 insulated 4 - 20 mA analog output 1 digital output switch (up to 1 A) 1 serial output (RS232, alternatively RS485 or USB)
Power supply	24 V DC
Prism	Sapphire
Data output	4 - 20 mA
Process contact material	Stainless steel or Hastelloy
Dimension	150 mm x ø 65mm, approx. 1000g
Mounting accessories	VariVent (Tuchenhagen), APV or TriClamp**

* Standard conditions (589 nm, 20°C)
** Optional

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 applications of the model

- water quality
- dilution of beverages and softdrinks
- Urea production
- Organic solvents
- Wastewater control
- Inorganic Salts
- Disinfectants
- Oilseed pressing
- Concentrate recovery
- Detergent concentration
- Latex
- Cutting oils
- Cooling lubricants