

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

# iPR C<sup>2</sup>

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## Compact Inline Process Refractometer

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## SPECIFICATIONS

## iPR C<sup>2</sup>

|                          |  |
|--------------------------|--|
| Measuring scales         | Refractive Index (RI), Sucrose (Brix) (already included)<br>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               | 2 insulated 4 - 20 mA analog outputs<br>2 digital output switch (up to 1 A)<br>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



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