









# iPR HR<sup>2</sup>

High-Res Inline Process Refractometer



SPECIFICATIONS	iPR HR <sup>2</sup>
Measuring range 1	1.3200 - 1.3720 RI / 0 - 25 Brix
Measuring range 2	1.4200 - 1.6000 RI / 50 - 100 Brix
Resolution	0.00005 RI / 0.02 Brix
Reproducibility	± 0.00004 RI / ± 0.02 Brix at 25°C ± 0.01 Brix up to 2%
Process temperature	-10°C up to + 100°C (with water cooling installed)
Ambient temperature	-10 - 45°C
Pressure load capacity	MPa (145 psi, 10 bar) - up to 30 bar available with APV conncection
External power supply	20 V - 30 V DC ( at 24 V and 0.11 A)
Interfaces	2 insulated 4 - 20 mA analog outputs 2 digital output switch (up to 1 A) 1 serial output (RS232, alternativly RS485 or USB)
Power supply	24 V DC
Prism	Sapphire
Light source / wavelength	589 nm LED
Process contact material	Sapphire, Stainless steel or Hastelloy
Mounting accessories	VariVent (Tuchenhagen), APV or TriClamp*

\* 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
- > Quality and concentration control
- > Standard scales (Brix, Oechsle, Degree Plato, 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 condensates
- > Disinfectants
- > Purity control for pharmaceuticals
- › Liquid-liquid extraction
- > Water purity
- > and many more

### Typical industries of the model

- > Pharmceutical industry
- > Chemical industry
- > Food & Beverage
- > Sanitary Industry
- > Packaging Industry



## SCHMIDT + HAENSCH GmbH & Co.

Waldstraße 80-81, 13403 Berlin, Germany Tel: + 49 (0 30) 417072-0, Fax: + 49 (0 30) 417072-99 sales@schmidt-haensch.de, www.schmidt-haensch.com

