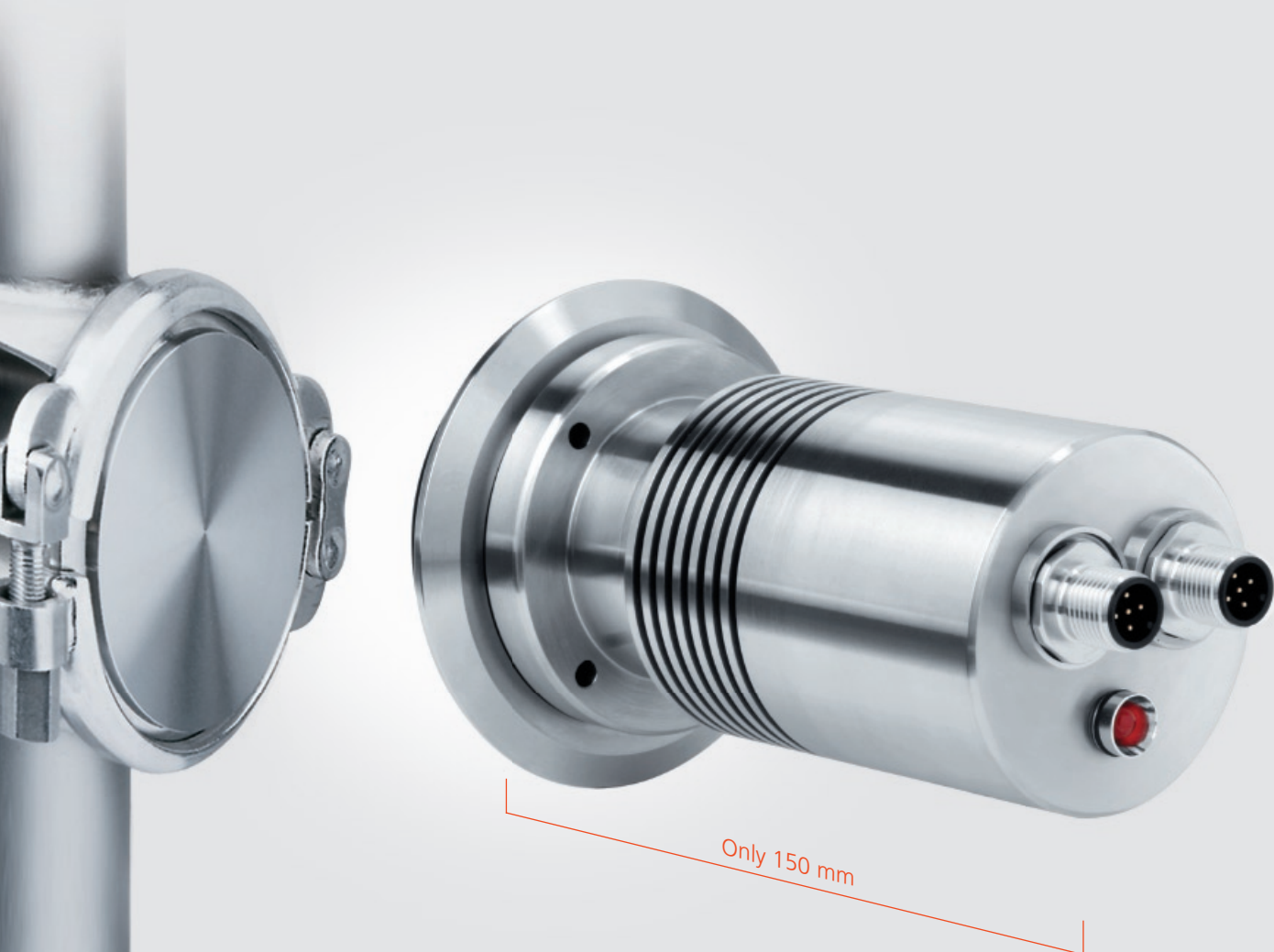




iPR Compact

Process-Refractometer

NEW



- **Compact stainless steel measuring head with YAG prism** and integrated electronic for direct connection to supervisory system or PC
- **Inline, real-time refractive index, Brix or concentration measurement** to monitor and control the concentration of dissolved solids in solution or liquids in process
- **Fast measurement and short response time**
- **Continuous measurement and real-time process control** with one analogue output
- **Excellent price-performance ratio**

SCHMIDT + HAENSCH

Opto-electronic measuring device since 1864

iPR Compact

For more than 25 years the inline process refractometers (iPR) from SCHMIDT+HAENSCH have been used successfully in the process analytical measuring technology.

In addition to the well known models iPR Basic, iPR FR (Full Range) and iPR HR (High Resolution) a **new compact version** has been developed. The iPR's measure the refractive index continuously and determine thereby the concentration of dissolved solids in solution and/or the mixing proportion of binary or quasi binary liquid mixtures and mass percentage. The measurement is independent of turbidity, colour and absorption and is free of signal drifts.

The main feature of the new iPR Compact is its **minimized dimension and weight**. The installation of the process refractometer in pipes or vessels is simple due to the use of standardized flanges. One advantage of the used measuring principle is the very **fast measurement** which allows short response times to control the production process. The reduced response time is minimizing the waste quote and improving the process performance. Consequently it is a **big money saver**.

Zero setting of the measuring head can be realized very simply by using distilled water or customers samples. Measurement is starting immediately after switching on the power supply. The continuous operation is indicating by a green LED. Red LED lamp is indicating "out of measuring or temperature range". For configuration, the iPR Compact can be connected to PC via a serial interface.

Appropriate software as well as the connecting cable are included in the delivery. The data output signal (4 - 20 mA) can be directly connected to the supervisory systems.



Applications

- Determination of mixing ratio
- Quality and concentration control of dissolved solids
- Interface detection (product change)
- Concentration and pollution of cutting oils and lubricants
- Concentration and pollution of detergents

Technical data

Measuring range:	1.3320 - 1.4209 RI 0 - 50 Brix (with ATC)
Resolution:	0.0001 RI / 0.1 Brix
Precision:	± 0.0002 RI / ± 0.2 Brix
ATC Range Brix:	10 - 50°C
Process temperature:	Max. 50°C
Process pressure:	Max. 1 Mpa (145 psi, 10 bar)
Power supply:	24 V DC
Light source:	589 nm LED
Data output:	4 - 20 mA
PC connection:	RS 232 or RS 422
Dimension:	150 x ø 65 mm
Weight:	1000 g

Mounting accessories: VariVent (Tuchenhagen) or customer specified (CIP and pipe pig use possible)

Accessories: Cleaning device for prism
paperless data recorder,
Universal Controller

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ISO 9001:2000

