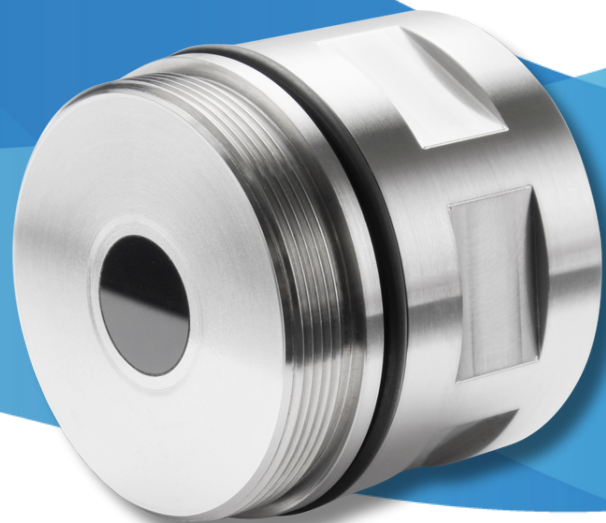


- L** LABORATORY
- P** PROCESS
- S** SOFTWARE
- A** AUTOMATION

ics²

Customizable Inline Concentration Sensor

Highly customizable concentration sensor with the size of a golf ball



SPECIFICATIONS IN-LINE CONCENTRATION SENSOR

Measuring scales	1.3270...1.4036 RI / 0 - 40 Brix (up to 50 Brix on request)
Accuracy	0.0002 / 0.15 Brix
Reproducibility	0.0001 / 0.075 Brix
Resolution	0.0001 / 0.05 Brix
Measurement principle	Total internal reflection refractometer, 590 nm
Temperature measurement accuracy	+/-0.3 °C
Operating temperature	-10 to + 60 °C
Interfaces	RS485 Modbus RTU
Power supply	12-28 VDC
Current consumption	max. 30 mA (at 24 V)
IP class	IP68
Process pressure (max.)	0 - 4 bar
Wetted materials	N-BK7, 1.4404 stainless steel, PU
Housing material	1.4404 stainless steel
Weight	155 g
Dimensions	40 mm (diameter) x 44 mm (length) (60 mm incl. 90° Cable)
Standard interface	- RS485 Modbus RTU 4-pin M8 plug - M8 cable 90° 300 mm - Mechanical: - DN40 - M38x1, thread length 7 mm - radially sealing O-ring 36x2 NBR
Optional interface	2x 4 - 20 mA - USB - Mechanical: - VARIVENT® type N
Mechanical interface on request	Triclamp-, DIN-, ISO-flange, APV
PC Software	UniConfig (only with #17618 RS485-USB adapter cable)

Range of Models

Model	Scale	Measuring range	Accuracy	Reproducibility	Resolution
all	Refractive index	1.3270...1.4036	0.0002	0.0001	0.0001
iCS ² cust. #300003	Sucrose Brix	0...40.00 Brix	0.15 Brix	0.075 Brix	0.05 Brix
iCS ² -CL #300000	Cooling lubricants	0...20.00 %wt	0.3 %wt	0.2 %wt	0.1 %wt
iCS ² -EG #300001	Ethylene glycol or propylene glycol	0...56.0 %wt	0.3 %wt	0.15 %wt	0.1 %wt
Further scales on request!					

Further applications

- Cleaning agents, e.g.: Dirl-LUM603, Promoclean™, SupraWT, deconex®, windshield wiper fluid
- Freezing point depression agents, e.g.: Glysantine, G12, G12+, G13
- Brake fluid, DOT3, DOT4, DOT5
- Hydraulic oil monitoring
- AdBlue
- and many more

Accessories

- #16560 VARIVENT® adapter
- #360024 Demonstration setup
- #17618 RS485-USB adapter cable
- #18699 T-Piece Housing ½" NPT
- #350005 Modbus – 4 - 20 mA Converter

