THE ULTIMATE IN LINE

process refractometer

The UR24 digital refractometer is a stand-alo-ne unit designed for **direct installation** in-line or in a tank or vessel. It continuously measures concentration and displays and outputs the result in Brix or nD or % concentration with **high accuracy**. It also features a user programmable scale for specific applications.

The UR24 will signal to the process when concentration is outside of specifications or has reached its target end point by means of analogue and digital **interfaces** (Profibus DP is available as an option). The analyzer does not have **any drift** in the time so that it does not need any adjustment vs the laboratory: after the initial configuration during start up, the operators in the plant do not have to touch the system anymore. Due to the optical technology, the equipment is virtually **no maintenance**.

Benefits

- Optical Technology
- High accuracy
- 100% in line installation
- No need of adjustments
- No maintenance

UR24
PROCESS REFRACTOMETER

Brix, nD and % CONCENTRATION OF THE LIQUIDS

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The UR24 robust construction with stainless steel case and IP67 protection, allows the installation in any aggressive environment using both standard varivent fittings and Maselli adapters including weld ends, flanges, DIN 11851. For specific applications, the mounting adapter may be equipped with dedicated system for prism cleaning.

OPERATING SPECIFICATION

Measurement range:	1.3163 … 1.5318 nD(0…95 Bx)*
Accuracy:	+/- 0.00003 nD (+/-0.02Bx) for SA version
	+/- 0.00007 nD (+/-0.05Bx) for HA version
	+/- 0.0002 nD (+/-0.15Bx) for STD version
Measurement scale:	Brix scale or USER scale on request

0 Bx at max 105°C

TECHNICAL FEATURES

Product temperature:	-5…+105°C (23…221°F)
	-5…+140°C (23…284°F) for LP version
Max sterilization temperature:	125°C (257°F) x 30 min or
	145°C (293°F) x 30 min for LP version
Line pressure:	max. 10 bar (145 psi) at 20 °C (68 °F)
	max. 8 bar (116 psi) at 100 °C (212 °F)
	Special version for pressures up to 40 bar (580 psi) at 20°C (68 °F)
Power supply:	AC 24V +/- 10%, 50…60Hz, 0.6A
	DC 24V +/- 10%, 0.6A
	AC 115/230V +/- 10%, 50…60Hz, 25VA (with transformer)
Interfaces:	Analog, Analog/Digital, PROFIBUS DP, Ethernet/IP, PROFINET, Modbus/TCP
Protection Category:	IP67 to EN60529

Please refer to the technical datasheet for further data.

More products
For the analysis of liquids concentration

UR62
process refractometer Basic

In Line – Brix / nD

LR05
Laboratory refractometer

Laboratory – Brix / nD/ User Scale

ZZ2001571B