



THE ULTIMATE IN LINE

process refractometer

The UR24 digital refractometer is a stand-alone 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

UR24 installation accessories

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 limits:	1.3170 ... 1.5318 nD(0...95 Bx)
Max Accuracy:	+/- 0.00004 nD (+/-0.02Bx)
Measurement scale:	Brix scale or USER scale on request
Response time:	2 sec

TECHNICAL FEATURES

Measurement temperature:	-5...+105°C (23...221°F) -5...+140°C (23...284°F) for UR24 LP version
Max sterilization temperature:	125°C (257°F) x 30 min or 145°C (293°C) x 30 min for UR24 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 configuration for pressures till 25 bar (362 psi) at 100°C (212 °F)
Power supply:	AC 24V +/- 10%, 50...60Hz, 0.6A DC 24V +/- 10%, 0.6°
Interfaces:	- Digital RS422/485 - Analog Profibus by means of external converter (option) 0...20mA or 4...20mA into 470Ω
Protection Category:	IP67 to EN60529
Dimension and weight:	Ø176 (b) x 192.5 (h) x 132.5 (p), 3.3 kg

More products
For the analysis of
liquids concentration

UR62
process refractometer
Basic



LR05
Laboratory refractometer



ZZZ001571B

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PROCESS ANALYZERS

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