OPTICAL OXYGEN MEASUREMENT

OXYTRANS TR ECO

Continuous In-line O_2 Measurement in Liquids and Gases

OXYTRANS TR Eco is the in-line economy version for O_2 measurement in deaerated water, wort, beer, beverages, liquid food products, CO_2 and inert gases.



In-line Measurement
Continuous O_2 measurement in the process.

Liquids and Gases
Two documented measuring ranges per phase.

Optical Technology
No replacement of electrolyte or membrane.

Measuring Principle

Indicator molecules in the optical window are excited by blue-green LED light. Oxygen transfers energy from the excited molecules and reduces the detected signal. Other gases do not affect the measurement result.

Applications

- Deaerated Water
- Wort
- Beer
- Beverages
- Liquid Food Products
- CO_2
- Inert Gases
- In-line Process Measurement

Optical technology with short response time and high long-term stability; hygienic design with various flange connections.

Technical Data

Technical data for the OXYTRANS TR Eco in-line version.

PARAMETER	OXYTRANS TR ECO
Measuring Ranges, Liquid Phase	I) 3 ppb - 2 ppm II) 50 ppb - 35 ppm
Accuracies, Liquid Phase	I) ± 3 ppb II) ± 50 ppb
Measuring Ranges, Gas Phase	I) 0 - 4,2 % O_2 II) 0 - 50 % O_2
Accuracies, Gas Phase	I) ± 0,006 % O_2 II) ± 0,05 % O_2
Response Time / Operating Pressure	t90 ≤ 10 s / max. 12 bar
Operating Temperature	-5 to +55 °C (Pt100); optional +98 °C
Material	1.4404 / AISI 316L, silicone (FDA), PTFE (FDA)
Input	1 x analog (4 - 20 mA) & 3 x digital (24 VDC)
Output / Fieldbus	2 x analog (4 - 20 mA) & 3 x digital (24 VDC) optional: PROFIBUS DP & PROFINET
Enclosure Rating / Supply	IP65 / 24 VDC

Optical Technology

No replacement of electrolyte or membrane.

Short Response Time

t90 ≤ 10 s and high long-term stability.

Hygienic Design

Various flange connections available.

Design & Integration

We support you with the project-specific selection and integration of the **OXYTRANS TR ECO** - from measuring range and installation position to process connection and interfaces.

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