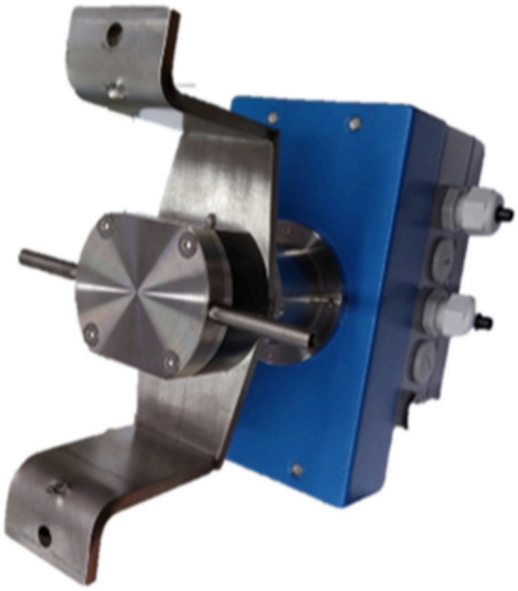
OPTICAL OXYGEN MEASUREMENT

OXYTRANS TR-K

O_2 Measurement in Liquids

OXYTRANS TR-K is an optical oxygen sensor for O_2 measurement in deaerated water, wort, beer, beverages and liquid food products. The instrument is designed for applications requiring maximum sensitivity and highest accuracy.



Liquid Phase
Measuring range 1 ppb - 2 ppm.

Short Response Time
t90 ≤ 10 s.

Optical Technology
No replacement of electrolyte or membrane.

Measuring Principle

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

Applications

- Deaerated Water
- Wort
- Beer
- Beverages
- Liquid Food Products
- In-line Measurement
- Quality Control
- Process Monitoring

The TR-K version is intended for the liquid phase. Accuracy is reduced at temperatures above the optional +98 °C.

Technical Data

Technical data for selection and integration.

PARAMETER	OXYTRANS TR-K
Measuring Range, Liquid Phase	1 ppb - 2 ppm
Accuracy	± 1 ppb
Response Time	t90 ≤ 10 s
Operating Pressure	max. 12 bar
Operating Temperature	Standard -5 to +55 °C (Pt100) optional max. +98 °C +98 to +110 °C: reduced accuracy
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

Liquid Phase
Low measuring range down to 1 ppb.

Hygienic Design
Various flange connections.

Long-Term Stability
Optical measurement principle.

Design & Integration

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

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