OPTICAL OXYGEN MEASUREMENT

OXYTRANS M

Portable O_2 Measurement in Liquids and Gases

OXYTRANS M is the portable version for optical O_2 measurement in liquids and gases. Measured values can be acquired and recorded directly at changing process and inspection points.



Portable Inspection
Measurement at changing inspection points.

Data Logging
Approx. 5.000 measured values with PC software and USB.

Optical Technology
No replacement of electrolyte or membrane.

Measuring Principle

Indicator molecules in the optical window are excited by blue-green light. Oxygen changes the detected signal. The portable instrument makes this measurement principle available for portable inspection measurements.

Applications

- Deaerated Water
- Wort
- Beer
- Beverages
- Liquid Food Products
- CO_2
- Inert Gases
- Inspection Measurement

Data logging can be manual or automatic. Recording intervals of 5 to 600 seconds, PC software and a USB interface support documentation.

Technical Data

Technical data for the portable version.

PARAMETER	OXYTRANS M
Measuring Ranges, Liquid Phase	I) 1 ppb - 2 ppm II) 30 ppb - 35 ppm
Accuracies, Liquid Phase	I) ± 1 ppb II) ± 30 ppb
Measuring Ranges, Gas Phase	I) 0 - 4,2 % O_2 II) 0 - 50 % O_2 III) 0 - 0,02 % O_2
Accuracies, Gas Phase	I) ± 0,002 % O_2 II) ± 0,03 % O_2 III) ± 0,0002 % O_2
Range III Restriction	Gas phase and standard temperature range only
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)
Data Logging	manual / automatic, 5 - 600 s; approx. 5.000 measured values; PC software / USB
Enclosure / Weight	Robust aluminium enclosure / 1,65 kg
Enclosure Rating / Supply	IP65 / rechargeable battery

Optical Technology

No replacement of electrolyte or membrane.

Short Response Time

t90 ≤ 10 s and high long-term stability.

Portable Version

Robust aluminium enclosure; weight 1,65 kg.

Design & Integration

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

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