

In-line O₂ Gehaltemeter

Norit
purification

Haffmans

In-line O₂ Gehaltemeter
OGM



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General product information

In the beer and beverage industries, the content of dissolved oxygen (DO) is extremely important to both product quality and taste. Excess oxygen (O₂) can compromise the flavor stability and lead to significantly reduced product shelf life.

Because of this, breweries and other beverage manufacturers continuously seek to measure and control the O₂ concentrations throughout production.

The in-line O₂ Gehaltemeter, type OGM, combines high accuracy with excellent measurement stability. This new optical O₂ measurement technology provides greatly improved response times compared to traditional O₂ measuring devices and does not require frequent calibration.

The OGM is available in two measuring ranges:

- Low measuring range (LHO) for accurate DO measurement of beverages < 2,000 ppb (e.g. beer and deaerated water)
- Wide measuring range (WLO) for accurate DO measurement of beverages < 45.0 mg/l (e.g. wort, soft drinks and non-deaerated water)

The OGM can be installed anywhere in the production process where the determination of the dissolved oxygen content is critical to the quality of the product. The O₂ probe is hygienically designed, and is easily mounted. It is available in two executions:

- Varivent connection
- 25 mm connection (that will fit in a classic 25 mm connection typically used with traditional O₂ measuring devices)

The user-friendly control unit can be supplied in either field or panel mounted versions and a maximum of two O₂ probes can be connected to each control unit.

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Varivent probe



25 mm probe

Benefits

- Accurate process control
 - measurement data storage
- Cost saving
 - reduction of product losses
 - low maintenance
 - efficient operation of production processes

Application

- In-line, at critical locations in the production line where the determination of the dissolved O₂ content is required and adjustments within the process can be made

Technical Data

Control Unit

Power supply	85-264 V / 50-60 Hz (optional 24 VDC)
Dimensions	200 x 200 x 80 (LxWxH mm)
Mounting	wall mounting/panel mounting

O₂ probe

Dimensions	Varivent connection 200 x 100 (LxD mm)	25 mm connection 280 x 100 mm (LxD mm)
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O₂ sensor

<i>Measuring range</i>	Type LHO	Type WLO
O ₂ Measurement	0.0 - 2,000 ppb	0.1 - 45.0 mg/l
Temperature	-5 - 40.0° C	-5 - 40.0° C
<i>Accuracy</i>		
O ₂ Measurement	±1 ppb + 2% of m.v.*	<5% of m.v.*
Temperature	± 0.1° C	± 0.1° C

Measuring units	ppb, µg/l, ppm, mg/l, % a.s.
Process Temperature	max. 110° C
Process pressure	max. 10 bar
Measuring interval	30 sec. (adjustable from 2 - 999 sec.)
Memory capacity	up to 500 measurements
Protection class	IP-67

* at 20° C

Scope of Supply

- Control unit
- Wall mounting set
- O₂ probe
- Mains cable
- Probe communication cable
- I/O cable for analogue output
- Calibration beaker with spare O-ring 60x3 mm
- Instruction manual

Options

- Pipe/probe mounting set (DN 40 - DN 125)
- Software (CD + RS cable)
- Control unit with Profibus DP
- Socked weld fitting for 25 mm O₂ probe
- In-line housing with varivent connection, inspection glasses and clamps for O₂ probe with Varivent connection (pipe dimensions to be specified at time of enquiry)
- O₂ calibration set
- Certificate of measurement

Haffmans BV reserves the right to make changes in the technical specifications at any time.



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