

# In-line O<sub>2</sub> Gehaltemeter

Norit  
Haffmans

In-line O<sub>2</sub> 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 (O<sub>2</sub>) 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 O<sub>2</sub> concentrations throughout production.

The In-line O<sub>2</sub> Gehaltemeter, type OGM, combines high accuracy with excellent measurement stability. This new optical O<sub>2</sub> measurement technology provides better response times than traditional O<sub>2</sub> 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
- Wide measuring range (WLO) for accurate DO measurement of beverages < 45.0 ppm

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 O<sub>2</sub> 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 sensor connection

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## Benefits

- Accurate process control
  - measurement data storage
- Cost saving
  - no product loss
  - low maintenance

## Application

- In-line, at critical locations in the production line where the determination of the dissolved O<sub>2</sub> content is required and adjustments within the process can be made

## Technical Data

### Control Unit

Power supply	85 - 264 VAC wide range (optional 24 VDC)
Dimensions	ca. 8x8x3 in. (LxWxH)
Mounting	wall mounting/panel mounting

### O<sub>2</sub> probe

Process connection	Varivent	25 mm
Dimensions	ca. 8x4 in. (LxW)	ca. 11x4 in. (LxW)

### O<sub>2</sub> sensor

Type	LHO	WLO
Measuring range	0.0 - 2,000 ppb	0.0 to 45 ppm
Accuracy	± 1 ppb + 2% of m.v.	< 5% of m.v.

Measuring units	ppb, µg/l, ppm, mg/l, % a.s.
Temperature	23 - 104° F, acc. ± 0.1° F
Measuring interval	30 sec. (adjustable from 2 - 999 sec.)
Memory capacity	up to 500 measurements
Weight	ca. 11 lbs.

## Scope of Supply

- Control unit
- Wall mounting set
- O<sub>2</sub> probe
- Main cable
- Probe communication cable
- I/O cable for analog output
- Calibration set with spare O-ring
- Instruction manual

## Options

- Pipe/probe mounting set
- In-line varivent clamp
- Software (CD + RS cable)
- Profibus DP
- In-line housing with varivent connection
- O<sub>2</sub> calibration set
- Certificate of measurement

**Haffmans North America reserves the right to make changes in the technical specifications at any time.**



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