

HAFFMANS OGM IN-LINE O₂ GEHALTEMETER

PRODUCT LEAFLET

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 sensor 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 sensor can be connected to each control unit.

BENEFITS

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

APPLICATIONS

- 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



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TECHNICAL DATA

CONTROL UNIT

Power supply

85-264 V / 50-60 Hz (optional 24 VDC)

Dimensions

235 x 205 x 165 mm / 9.25 x 8.07 x 6.50 in
(LxWxH)

Mounting

Wall mounting

O₂ SENSOR

Varivent® connection

84 x 175 mm

25 mm connection

84 x 240 mm

O₂ SENSOR LHO

Measuring range

O₂ Measurement 0.0 - 2,000 ppb
Temperature -5.0 - 40.0 °C

Accuracy

O₂ Measurement ±1 ppb + 2 % of m.v.*
Temperature ± 0.1 °C

O₂ SENSOR WLO

Measuring range

O₂ Measurement 0.1 - 45.0 mg/l
Temperature -5.0 - 40.0 °C

Accuracy

O₂ Measurement < 5 % of m.v.*
Temperature ± 0.1 °C

* at 20 °C

Measuring units

ppb, µg/l, ppm, mg/l, % a.s.

Process temperature

max. 110 °C

Process pressure

max. 10 bar(g)/145 psi

Measuring interval

30 sec. (adjustable from 2 - 999 sec.)

Memory capacity

Up to 500 measurements

Protection class

IP-67

SCOPE OF SUPPLY

- Control unit
- O₂ sensor
- Sensor communication cable
- Control unit wall mounting set
- Mains cable
- I/O cable for analog output
- Calibration beaker with spare O-ring 60x3 mm
- Instruction manual

OPTIONS

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



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