HAFFMANS OGM
IN-LINE O_2 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 (O_2) 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_2 concentrations throughout production.

The In-line O_2 Gehaltemeter, type OGM, combines high accuracy with excellent measurement stability. This new optical O_2 measurement technology provides greatly improved response times compared to traditional O_2 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 O_2 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 O_2 measuring devices)
- Tri-Clamp 2" connection

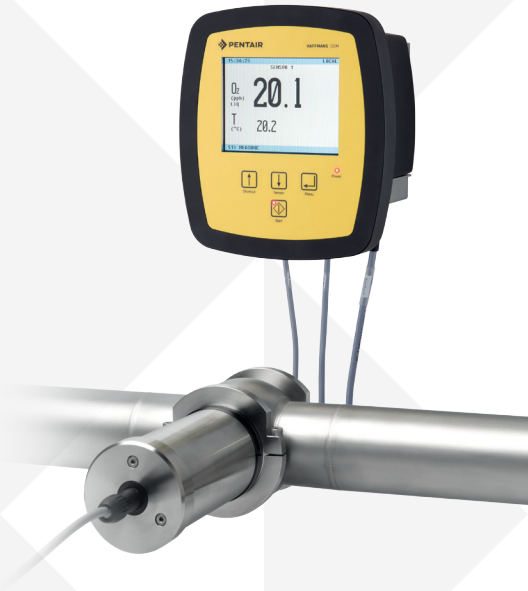
The user-friendly control unit can be supplied in either field or panel mounted versions and a maximum of two O_2 sensor can be connected to each control unit.

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 O_2 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

O_2 SENSOR

Varivent® connection
84 x 175 mm

25 mm connection
84 x 240 mm

Tri-Clamp 2"connection
84 x 240 mm

O_2 SENSOR LHO

Measuring range

O_2 Measurement	0.0 - 2,000 ppb
Temperature	-5.0 - 40.0 °C

Accuracy

O_2 Measurement	±1 ppb + 2 % of m.v.*
Temperature	± 0.1 °C

O_2 SENSOR WLO

Measuring range

O_2 Measurement	0.1 - 45.0 mg/l
Temperature	-5.0 - 40.0 °C

Accuracy

O_2 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
- O_2 sensor
- Sensor communication cable
- Control unit wall mounting set
- Mains cable
- I/O cable for analog output
- Calibration beaker with spare O-ring
- 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 O_2 sensor
- In-line housing with Varivent® connection, inspection glasses and clamps for O_2 sensor with Varivent® connection (pipe dimensions to be specified at time of enquiry)
- O_2 calibration set

Varivent® sensor

25 mm sensor

Tri-Clamp 2"

PENTAIR

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