

HAFFMANS OGM IN-LINE O₂ GEHALTEMETER - ULTRAPURE GAS APPLICATION

PRODUCT LEAFLET



GENERAL PRODUCT INFORMATION

In the production of beer and other carbonated beverages the quantity of oxygen (O₂) in gases such as carbon dioxide (CO₂) and/or nitrogen (N₂) that are in contact with the beverage is a decisive factor to the product's final quality and overall taste. A low O₂ content is crucial to avoid O₂ pick-up throughout the production process.

When CO₂ is recovered from the fermentation process, the gas is liquefied so that non-condensable gases – O₂ and N₂ – can be removed. During N₂ generation the residual quantity of O₂ is continuously monitored to assure that the N₂ produced has a consistent high purity. During both of these processes the in-line O₂ Gehaltemeter, type OGM, measures the O₂ content of ultrapure gases and provides a key parameter for an efficient and economical plant operation.

The OGM uses optical technology that is not sensitive to organic substances and humidity to measure O₂. It provides greatly improved response times compared to traditional O₂ measuring devices and doesn't require frequent calibration which reduces downtime and labor cost.

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

BENEFITS

- Cost saving
 - efficient and economical operation of CO₂ recovery or N₂ generation plants
 - reduces gas loss
 - low maintenance
 - insensitive to air humidity

APPLICATIONS

- In-line, for the determination of the O₂ content of ultrapure gas, typically CO₂ gas from fermentation, preferably installed after the activated carbon filter/drier of a CO₂ recovery system or a nitrogen generation plant.

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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

25 mm connection

Dimensions 84 x 240 mm

O₂ SENSOR LHG

Measuring range

O ₂ measurement	0 - 200 ppm (vol/vol)
Temperature	-5.0 - 40.0 °C (23 - 104 °F)
Pressure compensation	adjustable from 0.0 - 2.000 bar (0 - 29 psi)

Accuracy

O ₂ measurement	2 ppm + 5% of m.v.*
Temperature	± 0.1 °C/°F

O₂ units

ppm (vol/vol), %, % a.s.

Process temperature

Max. 50 °C (122 °F)

Measuring interval

30 sec. (adjustable from 3 - 999 sec.)

Memory capacity

Up to 500 measurements

Protection class

IP-67

* at 20 °C

SCOPE OF SUPPLY

- Control unit
- O₂ sensor
- Sensor communication cable
- Control unit wall mounting set
- Power supply cable
- I/O cable for analog output
- Set of pressure reduction accessories
- Calibration beaker with spare O-ring
60 x 3 mm
- Instruction manual

OPTIONS

- Profibus DP
- Control unit pipe/sensor mounting set
(DN 40 - DN 125)
- Control unit panel mounting set
- Certificate of measurement
- O₂ calibration set



25 mm sensor



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