

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 (0_2) in gases such as carbon dioxide $(C0_2)$ and/or nitrogen (N_2) that are in contact with the beverage is a decisive factor to the product's final quality and overall taste. A low 0_2 content is crucial to avoid 0_2 pick-up throughout the production process.

When CO_2 is recovered from the fermentation process, the gas is liquefied so that non-condensable gases – O_2 and N_2 – can be removed. During N_2 generation the residual quantity of O_2 is continuously monitored to assure that the N_2 produced has a consistent high purity. During both of these processes the in-line O_2 Gehaltemeter, type OGM, measures the O_2 content of ultrapure gases and provides a key parameter for an efficient and economical operation of CO_2 recovery.

The OGM uses optical technology that is not sensitive to organic substances and humidity to measure $\rm O_2$. It provides greatly improved response times compared to traditional $\rm O_2$ 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 $\rm O_2$ probes 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

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

200 x 200 x 80 mm/8 x 8 x 3.25 in (LxWxH)

Mounting

Field (e.g. wall/pipe) or panel mounting

O, PROBE

25 mm connection

Dimensions 280 x 100 mm/11 x 4 in (LxD)

O, SENSOR LHG

Measuring range

 $\begin{array}{lll} \text{O}_2 \text{ measurement} & \text{O} - 200 \text{ ppm (vol/vol)} \\ \text{Temperature} & -5.0 - 40.0 \,^{\circ}\text{C (23 - 104 °F)} \\ \text{Pressure} & \text{adjustable from} \\ \text{compensation} & \text{O}.0 - 2.000 \text{ bar (0 - 29 psi)} \end{array}$

Accuracy

 O_2 measurement 2 ppm + 5 % of m.v.* Temperature ± 0.1 °C/°F

O, UNITS

Process temperature

Max. 50 °C (122 °F)

Measuring interval

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

Memory capcity

Up to 500 measurements

Protection class

IP-67

* at 20 °C

SCOPE OF SUPPLY

- Control unit
- Probe communication cable
- Wall mounting set
- I/O cable for analog output
- 0, probe
- Set of pressure reduction accessories
- Calibration beaker with spare 0-ring 60 x 3 mm
- Power supply cable
- Instruction manual

OPTIONS

- Pipe/probe mounting set (- DN 125)
- Control unit with Profibus DP
- 0, calibration set
- Certificate of measurement







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