In the brewing and beverage industries, the quality of carbon dioxide (CO₂) is a decisive factor to the final quality and overall taste of the beverages produced. CO₂ with a low oxygen (O₂) content is crucial to avoid oxygen pick up in these beverages. Therefore CO₂ recovered from fermentation is liquefied in order to purify it from non-condensable gases – O₂ and nitrogen (N₂).

The in-line O₂ Gehaltemeter, type OGM, measures the O₂ content of CO₂ gas from fermentation and provides a key parameter in the efficient and economical operation of a CO₂ recovery system.

The in-line O₂ measurement is based on an optical technology that is not sensitive to organic substances, humidity and beer foam (as long as it is gas permeable). It provides greatly improved response times compared to traditional O₂ measuring devices and doesn’t require frequent calibration.

It is recommended that the OGM will be installed in the CO₂ collection line, preferably after the foam separator. The O₂ sensor is hygienically designed and is easily removed for routine servicing.

It is available in two executions:

- 25 mm connection (that fits a 25 mm connection typically used with traditional O₂ measuring devices)
- Varivent® connection

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.

**APPLICATIONS**

- In-line, for the determination of the O₂ content of incoming CO₂ gas from the fermentation and recovered CO₂ from bright beer tanks, deaeration systems etc, preferably installed after the foam separator of a CO₂ recovery system.

**BENEFITS**

- Accurate process control
- - measurement data storage
- Cost saving
- - reduction of CO₂ losses
- - efficient operation of CO₂ recovery system
- - low maintenance

**GENERAL PRODUCT INFORMATION**
HAFFMANS OGM
IN-LINE O₂ GEHALTEMETER - GAS APPLICATION

PRODUCT LEAFLET

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
Dimensions 84 x 175 mm

25 mm connection
Dimensions 84 x 240 mm

O₂ SENSOR LHO
Measuring range
O₂ measurement 0.000 - 4.180 % O₂
Temperature
-5.0 - 40.0 °C (23 - 104 °F)
Pressure
compensation
0.0 - 2.000 bar (0 - 29 psi)

Accuracy
O₂ measurement ± 0.002 % O₂ ± 2 % of m.v.*
Temperature ± 0.1 °C/°F

O₂ SENSOR WLO
O₂ measurement 0.20 – 100.0 % O₂
Temperature
-5.0 - 40.0 °C
Pressure
compensation
0.0 - 2.000 bar (0 - 29 psi)

Accuracy
O₂ measurement < 5 % of m.v.*
Temperature ± 0.1 °C/°F

* at 20 °C

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

SCOPE OF SUPPLY

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

Varivent® sensor

25 mm sensor

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