HAFFMANS OGM
IN-LINE O_2 GEHALTEMETER

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)

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.

CUSTOMER 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**

HAFFMANS OGM
IN-LINE O_2 GEHALTEMETER

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

	O_2 SENSOR LHO	O_2 SENSOR WLO
Measuring range		
O_2 Measurement	0.0 - 2,000 ppb	0.1 - 45.0 mg/l
Temperature	–5.0 - 40.0 °C	–5.0 - 40.0 °C
Accuracy		
O_2 Measurement	±1 ppb + 2 % of m.v.*	< 5 % of m.v.*
Temperature	± 0.1 °C	± 0.1 °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

* at 20 °C

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

- **NEW: HAFFMANS CONNECT+ INTERFACE MODULE**
  Connects Haffmans QC instruments to all modern PLCs
  with following standards:
  PROFIBUS DP, PROFINET, EtherNet/IP, IoT ready!
- 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