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
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
84 x 175 mm

25 mm connection
84 x 240 mm

Tri-Clamp 2” connection
84 x 240 mm

O₂ SENSOR LHO
Measuring range
O₂ Measurement
0.0 - 2,000 ppb
Temperature
-5.0 - 40.0 °C

Accuracy
O₂ Measurement
±1 ppb + 2 % of m.v.*
Temperature
± 0.1 °C

O₂ SENSOR WLO
Measuring range
O₂ Measurement
0.1 - 45.0 mg/l
Temperature
-5.0 - 40.0 °C

Accuracy
O₂ 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(gl)/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
• O₂ 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 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

Varivent® sensor

25 mm sensor

Tri-Clamp 2”

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