

CO₂/O₂ Gehaltemeter



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General product information

In the beer and beverage industry, the content of dissolved carbon dioxide (CO₂) and oxygen (O₂) is decisive to the quality, taste and flavor stability of beer and carbonated beverages. Particularly O₂ is an important parameter, as it causes a rapid decline of the flavor stability and shelf life. Breweries as well as soft drink manufacturers continuously control and measure the content of these gasses during the production steps of their beverages.

The combined CO₂/O₂ Gehaltemeter, type c-DGM, combines the internationally accepted determination of the dissolved CO₂ content based on Henry's Law with a highly accurate dissolved O₂ measurement. This new optical O₂ measurement technology provides better response times than traditional O₂ measuring instruments. A frequent calibration of the O₂ measurement is not required. The design allows for higher product pressure, making it suitable for the soft drink industry. Up to 10 different product types can be programmed. Equipped with an advanced operator and location identification system, it allows for the traceability of measuring data.

After operator/location identification, sampling takes place. When the CO₂ measurement is started, the O₂ content is stored. Automatically, an equilibrium is created, followed by pressure and temperature measurement. Subsequently, the dissolved CO₂ content is electronically calculated and displayed. Via an interface, the data can be securely transferred to a PC.

Besides the combined CO₂/O₂ measurement, the c-DGM is suitable for single O₂ measurement, continuous O₂ measurement and single CO₂ measurement.



c-DGM

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CO₂/O₂ Gehaltemeter



Benefits

- Perfect product control
 - reproducible and operator independent results
- Cost saving
 - lower investment costs (one device for as well CO₂ and O₂ measurement and up to 10 product types)
 - less labor intensive
 - reduction of beer loss
 - low maintenance

Applications

- At-line, directly sampled during the production process (from process-lines, vessels, tanks or kegs)
- Laboratory, after the production, sampled from all sorts of bottles or cans

Technical Data

Measurement:	O ₂ content	CO ₂ content
Measuring range:	0.0 - 2000 ppb	2.0 - 10.0 g/l
Accuracy:	± 1 ppb + 2% of m.v.	± 0.01 g/l
Measuring units:	ppb, µg/l, ppm, mg/l, %	g/l, % b.w., Vol, kPa

Temperature:	-5.0 - 40.0 °C, acc. ± 0.2 °C
Pressure:	0.0 - 10.0 barg, acc. ± 0.01 bar

Measuring time (incl. sampling):	approx. 120 sec.
Measurement between two charging operations:	approx. 120 measurements
Interface:	RS-232
Dimensions:	210 x 130 x 260 (LxWxH in mm)
Weight:	ca. 3.2 kg

Scope of Supply

- CO₂/O₂ Gehaltemeter, type c-DGM
- Service set with power supply (Euro or US plug)
- Software set (CD + Interface)
- Set of two sample hoses
- Operator ID - key (2 pieces)
- Location ID - key (2 pieces)
- Instruction Manual

Options

- Certificate of Measurement
- Quick charger

Haffmans BV reserves the right to make changes in the technical specifications at any time.



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