

Intelligent CO₂ Gehaltemeter



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General product information

In the beer and beverage industry, the content of dissolved carbon dioxide (CO₂) is decisive to the quality and taste of beer and carbonated beverage. Therefore, breweries as well as soft drink manufacturers continuously control and measure the CO₂ quantity during the production steps of their beverages.

The Intelligent CO₂ Gehaltemeter, type i-DGM, enables a fast and accurate determination of the CO₂ content in beer and carbonated beverages based on Henry's Law.

The design allows for high 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 and sampling, an equilibrium is automatically 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.



i-DGM

Intelligent CO₂ Gehaltemeter

Benefits

- Perfect product control
 - reproducible and operator independent results
- Cost saving
 - lower investment costs (one instrument for different product types)
 - reduction of beer loss
 - less labor intensive
 - 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

Measuring range

CO ₂ Value:	2.0 - 10.0 g/l
Temperature:	-5.0 - 40.0 °C
Pressure:	0.0 - 10.0 barg

Accuracy:

CO ₂ value:	± 0.05 g/l
Temperature:	± 0.2 °C
Pressure:	± 0.01 bar

Measuring units

CO ₂ value:	g/l, % w/w, Vol, kPa
Temperature:	°C, °F
Pressure:	bar, psi, kPa

Measurements between two charging operations:	approx. 150 measurements
Measuring time (incl. sampling):	approx. 55 sec.
Interface:	RS-232
Dimensions:	210 x 130 x 260 (LxWxH in mm)
Weight:	ca. 2.8 kg

Scope of Supply

- Intelligent CO₂ Gehaltemeter, type i-DGM
- Service set with power supply (Euro or US plug)
- Set of hoses
- Operator ID - key (2 pieces)
- Location ID - key (2 pieces)
- Software set (CD + Interface)
- 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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