

HAFFMANS i-DGM

INTELLIGENT CO₂ GEHALTEMETER

GENERAL PRODUCT INFORMATION

In the beer and beverage industries, the content of dissolved carbon dioxide (CO₂) is a determining factor in the quality and taste of beer and carbonated beverages. Breweries as well as soft drink manufacturers continuously control and measure the CO₂ quantity during production.

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 i-DGM allows for high product pressure, making it suitable for the soft drink industry. Up to 10 different product types can be programmed into the device. The bumper protects the i-DGM against physical impact in harsh environments.

During sampling, an equilibrium is created, followed by the measurement of pressure and temperature. The dissolved CO₂ content is then electronically calculated and displayed. The data can be securely transferred to a PC using the interface cable.



CUSTOMER BENEFITS

- **Accurate product control**
 - reproducible and operator independent results
- **Cost saving**
 - lower investment costs (one instrument for up to 10 different product types)
 - reduction of beer loss
 - less labor intensive
 - low maintenance

APPLICATIONS

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

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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, % b/w, Vol., kPa
Temperature	°C, °F
Pressure	bar, psi, kPa

Measuring time incl. sampling

Approx. 55 sec.

Number of measurements per charge

Approx. 150

Interface

RS-232

Dimensions

210 x 130 x 260 (LxWxH mm)

Weight

ca. 2.8 kg

SCOPE OF SUPPLY

- Intelligent CO₂ Gehaltemeter, type i-DGM
- Bumper
- Service set with power supply (Euro or US plug)
- Software set (CD + Interface cable)
- Set of hoses
- Instruction manual

OPTIONS

- Certificate of measurement
- Quick charger
- Inpack 2000 Sampling Device



Bumper



HAFFMANS B.V.

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