

# HAFFMANS i-DGM

## INTELLIGENT CO<sub>2</sub> GEHALTEMETER

### GENERAL PRODUCT INFORMATION

In the beer and beverage industries, the content of dissolved carbon dioxide (CO<sub>2</sub>) 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 CO<sub>2</sub> quantity during production.

The Intelligent CO<sub>2</sub> Gehaltemeter, type i-DGM, enables a fast and accurate determination of the CO<sub>2</sub> 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 CO<sub>2</sub> 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 <sub>2</sub> value	2.0 - 10.0 g/l
Temperature	-5.0 - 40.0 °C
Pressure	0.0 - 10.0 barg

#### Accuracy

CO <sub>2</sub> value	± 0.05 g/l
Temperature	± 0.2 °C
Pressure	± 0.01 bar

#### Measuring units

CO <sub>2</sub> 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 CO<sub>2</sub> 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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