HAFFMANS i-DGM
INTELLIGENT CO_2 GEHALTEMETER

PRODUCT LEAFLET

GENERAL PRODUCT INFORMATION

In the beer and beverage industries, the content of dissolved carbon dioxide (CO_2) 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_2 quantity during production.

The Intelligent CO_2 Gehaltemeter, type i-DGM, enables a fast and accurate determination of the CO_2 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 optional 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_2 content is then electronically calculated and displayed. The data can be securely transferred to a PC using the interface cable.

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 CO_2 Gehaltemeter, type i-DGM
- Service set with power supply (Euro or US plug)
- Software set (CD + Interface cable)
- Set of hoses
- Instruction manual

OPTIONS

- Certificate of measurement
- Bumper
- Quick charger
- Inpack 2000 Sampling Device "special"

Optional bumper