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
TECHNICAL DATA

Measuring range
- \( \text{CO}_2 \) value: 2.0 - 10.0 g/l
- Temperature: -5.0 - 40.0 °C
- Pressure: 0.0 - 10.0 barg

Accuracy
- \( \text{CO}_2 \) value: ± 0.05 g/l
- Temperature: ± 0.2 °C
- Pressure: ± 0.01 bar

Measuring units
- \( \text{CO}_2 \) 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 (L x W x H mm)

Weight
- ca. 2.8 kg

SCOPE OF SUPPLY

- Intelligent \( \text{CO}_2 \) 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