

Intelligent CO₂ Gehaltemeter

General information

For a constant quality and taste of all sorts of carbonated drinks, the critical parameter is the content of the dissolved CO₂ (carbon dioxide) in the liquid.

That is why it is common for breweries and the soft drinks industry to frequently measure the CO₂ content during production. The portable Intelligent CO₂ Gehaltemeter, type i-DGM, enables a fast and accurate determination of the CO₂ content in beer and carbonated drinks, either directly sampled during production (for example from tanks and pipes) or after production (for example from kegs).

Principle of operation

During sampling of the beverage, the liquid flows through the instrument. By closing the lever a measurement cycle starts up, creating an electrolysis followed by pressure and temperature measurement and electrical calculating of the CO₂ content, which is consecutively displayed. Within only six steps an accurate, traceable CO₂ content is determined:

- Identify the operator,
- Identify the location,
- Connect the instrument to the sampling point,
- Pull the lever to allow a sample flow,
- Depress the lever to start a measurement,
- Read the displayed CO₂ content.



Beverage Quality Control



Technical information

Features

Wide measuring range,
Good reproducibility without drift,
Advanced identification system,

High accuracy,
Absolute pressure measurement,
Programming up to 10 different product types.

Advantages

User-friendly operation and maintenance,
Robust and ergonomic portable design,
Equipped with heavy duty battery,
Small measuring chamber,
Programmability on supervisor level,
Traceability of data due to an advanced integrated Identification System.

Benefits

Fit for heavy duty operation, easy to carry around anywhere in the production environment,
Extended operation without intermediate recharging,
Transparent measuring chamber for visual monitoring of the sampling operation and the electrolysis,
Cost saving: one instrument for different product types,
Easy re-calibration without need of a reference gas,
Objective traceability of critical production parameters like CO₂, pressure, temperature, location, operator, date and time.

Scope of supply

- Intelligent CO₂ Gehaltemeter, type i-DGM
- Standard charger*
- Service set, consisting of O-rings, special lubricant, a calibration screw and special service tools
- Set of (two) sample hoses with quick connection
- Operator ID-key (2)
- Location ID-key (2)
- Data transfer software
- RS-232 connector cable
- Operating manual

* Quick charger (optional)

Technical data

Measuring range:		Interim measurement:	
CO ₂ value:	2.0 - 10.0 g CO ₂ /l	Measurement between	
Temperature:	-5.0 – 40.0 °C	2 charging operations:	up to 150 measurements
Pressure:	0.0-10.0 bar		
Accuracy:		Dimensions:	240 x 130 x 210 (H x W x D in mm)
CO ₂ value:	+/- 0.05 g CO ₂ /l	Weight:	Total: ca. 2.8 kg
Temperature:	+/- 0.20 °C		
Pressure:	+/- 0.01 bar		
Measuring units:			
CO ₂ value:	g/l, % w/w, Vol., kg/cm ²		
Temperature:	°C, °F		
Pressure:	bar, psi, kg/cm ²		
Memory capacity:	up to 400 measurements		
Charging time:	8 hours with standard charger (3 hours with a quick charger)		

Haffmans B.V. reserve the right to make changes in the technical specifications at any time.



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i-DGM