

Digital 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 drink industry to frequently measure the CO₂ content during production. The portable Digital CO₂ Gehaltemeter, type DGM-03, 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 four steps an accurate, traceable CO₂ content can be determined:

- 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

Automatic CO₂ determination,
High accuracy,
Absolute pressure measurement.

Adjustable measuring units,
Good reproducibility without drift,

Advantages

User-friendly operation,
Easy calibration and maintenance,

Robust and portable design,
Transparent measuring chamber.

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,
Easy re-calibration without need of a reference gas.

Scope of supply

- Digital CO₂ Gehaltemeter, type DGM-03
- Service set, consisting of a charger*, O-rings, special lubricant and special service tools
- Carrying handle
- Set of (two) sample hoses
- Operating Manual

*Charger

The standard version of the charger is:

- 200 – 250 V/ 50 – 60 Hz with Europlug (CEE-7/XVI)

On request we can supply the following:

- 100 – 125 V/ 50 – 60 Hz with American plug (NEMA 1 – 1SP)

- 200 – 250 V/ 50 – 60 Hz with Australian plug (ASC 112)

- 200 – 250 V/ 50 – 60 Hz with British plug (BS 1363 A)

Technical data

Measuring range:

CO₂ value: 2.0 - 10.0 g CO₂/l

Temperature: -5.0 – 40.0 °C

Pressure: 0.0 - 5.0 bar

Line Pressure: Max 5.0 barg

Interim measurement:

Measurement between

2 charging operations: up to 80 measurements

Accuracy:

CO₂ value: +/- 0.10 g CO₂/l

Temperature: +/- 0.20 °C

Pressure: +/- 0.03 bar

Dimensions:

275 x 75 x 190 (H x W x D in mm)

Weight:

Total: ca. 2.9 kg

Charging time:

8 hours

Measuring units:

The standard version of the Digital CO₂ Gehaltemeter is:

CO₂ value: g/l

Temperature: °C

Pressure: Barg

On request, we can supply the following versions of the Digital CO₂ Gehaltemeter:

CO₂ value: 1) Vol 2) Vol 3) kg/cm²

Temperature: 1) °C 2) °F 3) °C

Pressure: 1) Barg 2) PSI 3) kg/cm²

Ordering data

When enquiring or ordering, please state which measuring units and charger version you require.

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



Haffmans B.V.

P.O. Box 3150 NL-5902 RD Venlo, The Netherlands

T: (+31) (0)77 323 23 00 F: (+31) (0)77 323 23 23

E: customersupport@haffmans.nl I: www.haffmans.nl



NORIT The Purification Company

DGM-03