

## Analogue CO<sub>2</sub> Gehaltemeter

### General Information

For a constant quality and taste of all sorts of carbonated drinks, the critical parameter is the content of dissolved CO<sub>2</sub> (carbon dioxide) in the liquid.

That is why it is common for breweries and the soft drinks industry to frequently measure the CO<sub>2</sub> content during production.

The portable Analogue CO<sub>2</sub> Gehaltemeter, type GMT, enables a fast and accurate determination of the CO<sub>2</sub> 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. The pressure can be read from the manometer and the temperature from the thermometer. By means of a slide rule the CO<sub>2</sub> content can be quickly determined.

Within only 4 steps the CO<sub>2</sub> content is 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 pressure and temperature and determine the CO<sub>2</sub> content with the slide rule.



## Beverage Quality Control



## Technical information

### Features

Adjustable measuring ranges,  
Good reproducibility.

High accuracy,

### 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,  
Transparent measuring chamber for visual monitoring of the sampling operation and the electrolysis.

### Scope of supply

- Analogue CO<sub>2</sub> Gehaltemeter, type GMT
- Service set, consisting of a slide rule, O-rings, special lubricant and special service tools
- Carrying handle
- Set of (two) sample hoses
- Battery\*
- Operating Manual

\*Rechargeable Nickel-cadmium Battery

A rechargeable Nickel-Cadmium battery can be used instead of the standard dry-cell 9V battery. (NiCd-accumulators).

The rechargeable batteries are available singly or as a combi -set consisting of a charger and two batteries.

### Technical data

|                |  |
|----------------|--|
| Thermometer:   | -2.0 – 20.0 °C   |
| Manometer:     | 0.0 - 2.5 bar  |
| Line pressure: | Max 5.0 barg   |
| Dimensions:    | excl carrying handle: 275 x 75 x 190 (H x W x D in mm) |
| Weight:        | 2.4 kg   |

#### NiCd Accumulators

|                |                        |
|----------------|------------------------|
| Type:          | NiCd- Akku 9V-100mAh   |
| Charging time: | approx 14 h with 10 mA |
| Weight:        | 50 g                   |

#### Charger unit

|                 |                            |
|-----------------|----------------------------|
| Voltage:        | 220V/ 50 Hz or 110V/ 50 Hz |
| Charge current: | 2 x 11 mA                  |
| Charge voltage: | 9V DC                      |
| Weight:         | 135 g                      |

### Optional measuring ranges/ measuring units

For measuring particularly low or high CO<sub>2</sub> contents or for specific measuring units we can offer non-standard manometers, thermometers and slide rules.

| Thermometer     | Manometer      | Slide rule      |
|-----------------|----------------|-----------------|
| -2.0 – 40.0 °C  | 0.0 - 1.6 bar  | bar, °C, % w/w* |
| -2.0 – 20.0 °C* | 0.0 - 2.5 bar* | bar, °C, Vol    |
| 0.0 – 25.0 °F   | 0.0 - 4.0 bar  |                 |
|                 | 0.0 - 6.0 bar  |                 |

\* standard

### Ordering data

When enquiring or ordering, please state your required measuring range and which thermometer, manometer and slide rule you prefer. When choosing the manometer, please take into account the maximum CO<sub>2</sub> content at the highest product temperature. The line pressure at the sampling point must not exceed the range of the manometer.

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



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