

INPACK 2000 CO₂ Calculator

General information

For a constant quality and taste of all sorts of carbonated drinks, the critical parameter is the content of 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 of carbonated beverages filled in bottles and cans.

Having a compact, ergonomic and modular design, the INPACK 2000 CO₂ Calculator is user-friendly and fast to operate by operators in breweries or soft drinks laboratories.

Principle of operation

In practice, the INPACK 2000 CO₂ Calculator is used in two ways:

- 1 The bottle or can is directly placed onto the instrument and then shaken by hand.
- 2 The bottle or can is shaken until equilibrium pressure is achieved, and then placed onto the instrument.

After this, the handle is pulled forward and the sample is pierced.

The pressure transducer measures an absolute pressure to eliminate errors caused by variations in atmospheric pressure. A pt-100 temperature sensor measures the temperature. With the equilibrium pressure and the temperature, the CO₂ content is calculated and digitally displayed.



Beverage Quality Control



Technical information

Features

Availability of all units for T, p, CO₂,
 Good reproducibility without drift,
 Memory capacity up to 100 measurements,

High accuracy,
 Absolute pressure measurement,
 Data transfer software.

Advantages

Light and ergonomic design
 Fit with all common container sizes (glass & PET bottles, cans),
 No calibration necessary

Benefits

User-friendly operation and maintenance,
 Rechargeable batteries,
 Products specific parameters programmable.

Light and ergonomic design,

Scope of supply

- INPACK-2000 CO₂ Calculator, type ICC-2000
- Battery charger with RS-232 connection; 220- 250 V/50-60 Hz with Euro-plug* (CEE-7/XVI)
- RS-232 connector cable
- Data transfer software
- Set of spare parts consisting of O-rings and special lubricant
- Operating manual

*PET-bottle holder (optional)

*On request other battery chargers can be supplied:

-100-125 V/50-60 Hz with American plug (NEMA 1-15P)

-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: 2.5 - 9.99 g CO₂ /l

Temperature: -10.0 - 60.0 °C

Pressure: -1.0 - 6.0 bar

Accuracy:

CO₂ value: ± 0.10 g CO₂ /l

Temperature: ± 0.20 °C

Pressure: ± 0.01 bar

Measuring units:

CO₂ value: g/l*, % w/w., Vol., kg/cm²

Temperature: °C*, °F

Pressure: bar*, psi

Display: 2 lines, 16 characters LCD

Protection class: IP64

*Factory setting. Other units are programmable by the user.

Memory capacity: up to 100 measurements

Charging time: 8 hours

Container dimensions:

Container height: min. 50 mm / max. 360 mm

Container diameter: outside max. 120 mm
 bottom max. 92 mm

Dimensions: 550 x 170 x 250 (H x W x D in mm)

Weight: Total: 2.8 kg

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



Haffmans B.V.

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