

Inpack TPO/CO₂ Meter

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Haffmans

Inpack TPO/CO₂ Meter
c-TPO

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General product information

In the beer and beverage industries both oxygen (O₂) and carbon dioxide (CO₂) are important gases. When it comes to product life and flavor stability of beer and beverages, oxygen is detrimental. Preventing even O₂ pick-ups during the entire production and packaging process is of paramount importance to brewers and beverage manufacturers. As a result, beer and beverages are produced with very low dissolved oxygen (DO) levels, to achieve consistent quality and high flavor stability during the product's shelf life. The content of dissolved CO₂ is decisive to the quality and taste of beer and carbonated beverages. Therefore, brewers and beverage manufacturers continuously control and measure the CO₂ content in bottled and canned beverages.

The automatic Inpack TPO/CO₂ Meter, type c-TPO meets the demands. The differentiated measurement of headspace O₂ and DO provides immediate insight in the performance of the filling operation. The multiple routine determinations of TPO and CO₂ are fully automated. Up to 100 different product types/packages can be programmed and easily selected. The instrument is suited for the most common sizes of bottles and cans.

Beyond traditional TPO measurement methods and instruments, the c-TPO measures the headspace O₂ and DO by the filler, while at the same time the liquid remains in the package and not consumed by the instrument. Sample preparation time is skipped and lab space is minimized. The c-TPO also supports the well-known z-factor method according to Uhlig. The CO₂ content is measured according to Henry's law.



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Benefits

- High quality beer and beverages in every package
 - Prevent inferior product entering your market
- Save time and money and maximize the ROI
 - No sample preparation
 - Fully automated measurement
 - All-in-one measurement: HSO, DO, TPO and CO₂
 - Reduce process downtime
 - Prevent finished product losses
 - Low maintenance

Application

- Laboratory, applicable in breweries and soft drink and carbonated water industries
- Filling department, applicable in breweries and soft drink and carbonated water industries

Technical Data

Measuring range

TPO, HSO, DO, headspace volume, CO₂, Temperature, Pressure

Measuring range

Oxygen content	0.00 - 4.18%
DO	0.000 - 2.000 mg/l
CO ₂ value	2.0 - 15.0 g/l
HS volume	0.0 - 500 ml
Temperature	-5.0 - 40.0 °C
Pressure	0.00 - 5.00 barg

Accuracy

DO value	± (1 ppb + 2% m.v.)*
CO ₂ value	± 0.1 g/l
Temperature	± 0.2 °C
Pressure	± 0.02 bar

Memory capacity	up to 250 measurements
Bottle dimensions	Height min. 90 mm - max. 440 mm Diameter min. 55 mm - max. 200 mm
Can dimensions	Height min. 80 mm - max. 195 mm Diameter min. 50 mm - max. 73 mm
Voltage	80-240 V / AC 50-60 Hz
Interface	USB, barcode reader
Dimensions	max. 550 x 330 x 1120 (LxWxH mm) min. 550 x 330 x 680 (LxWxH mm)
Weight	40 kg

* at 20 °C

Scope of Supply

- Inpack TPO/CO₂ Meter, type c-TPO
- Service set with piercers and sealing rubbers
- Instruction manual
- Mains cable (Euro, US, UK or AUS plug)
- Software set (CD + Interface cable)

Options

- Certificate of measurement
- Barcode reader
- PET bottle holder
- Can holder

Haffmans BV reserves the right to make changes in the technical specifications at any time.



Haffmans BV

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

T +31 77 323 23 00 • F +31 77 323 23 23

E info@haffmans.nl • I www.haffmans.nl

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