

HAFFMANS c-TPO SELECTIVE INPACK TPO/CO, METER

GENERAL PRODUCT INFORMATION

In the beer and beverage industries both oxygen (O_2) and carbon dioxide (CO_2) are important gases. When it comes to product life and flavor stability, oxygen is detrimental. Preventing O_2 pick-ups during the entire production and packaging process is of paramount importance. 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 CO_2 is decisive to the quality and taste of beer and carbonated beverages. Therefore, brewers and beverage manufacturers continuously control and measure the CO_2 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 150 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 O_2 and DO by the filler, while at the same time the liquid remains in the package and is 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 CO_2 content is measured according to Henry's Law.



CUSTOMER BENEFITS

- High quality beer and beverages in every package
 - prevent inferior product entering the market
 - save time and money and maximize the ROI
 - no sample preparation
 - fully automated measurement
- All-in-one measurement: HS0, D0, TP0 and C0₂
 - reduce process downtime
 - prevent product losses
 - low maintenance

APPLICATIONS

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

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TECHNICAL DATA

Measuring range

TPO, HSO, DO, Headspace Volume, CO₂, Temperature, Pressure

0.00 - 4.18%

2.0 - 15.0 g/l

0.0 - 500 ml

-5.0 - 40.0 °C

±0.1g/l

± 0.2 °C ± 0.02 bar

0.00 - 5.00 barg

±(1ppb+2%m.v.)*

90 mm - max. 440 mm

55 mm - max. 200 mm

80 mm - max. 195 mm

50 mm - max. 73 mm

0.000 - 2.000 mg/l

Measuring range

Oxygen content DO value CO₂ value HS volume

Temperature Pressure

Accuracy

DO value CO₂ value

CO₂ fraction Temperature

Pressure

Memory capacity

Up to 250 measurements

Bottle dimensions

Height

Diameter

Can dimensions

Height

Diameter

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



HAFFMANS B.V.

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SCOPE OF SUPPLY

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

OPTIONS

- Certificate of measurement
- PET bottle holder
- Barcode reader





