

HAFFMANS TPO INPACK TPO METER

GENERAL PRODUCT INFORMATION

In the beer and beverage industries oxygen (O_2) is an important gas. 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 automatic Inpack TPO Meter, type TPO meets the demands. The differentiated measurement of headspace O_2 and DO provides immediate insight in the performance of the filling operation. The multiple routine determinations of total package oxygen 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 TPO measures the headspace O_2 and DO nearby 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.



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: HSO, DO, TPO**
 - 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**

HAFFMANS TPO

INPACK TPO METER

TECHNICAL DATA

Measuring range

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

O₂ sensor LHO

Oxygen content 0.00 - 4.18%
DO value 0.000 - 2.000 mg/l

O₂ sensor WLO

Oxygen content 0.00 - 100.00%
DO value 0.0 - 45.0 mg/l

Accuracy

O₂ sensor LHO

Oxygen content $\pm(0.002\% + 2\% \text{ m.v.})$
DO value $\pm(1 \text{ ppb} + 2\% \text{ m.v.})^*$

O₂ sensor WLO

Oxygen content $\pm(0.002\% + 5\% \text{ m.v.})$
DO value $\pm(0.1 \text{ mg/l} + 5\% \text{ m.v.})^*$

Memory capacity

Up to 100 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 Meter, type 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



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