

Inpack c-TPO Meter



Automatic Inpack TPO/CO₂ Meter

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 remains detrimental. Preventing (even low) 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, achieving consistent quality and high flavor stability during their entire 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 or canned beverages.

The automatic Inpack TPO/CO₂ Meter, type c-TPO meets the demands. The differentiated measurement of Headspace Oxygen (HO) and DO provides immediate insight in the performance of the filling operation. The multiple routine determinations of Total Package Oxygen (TPO) and CO₂ are performed 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 HO and DO as it is actually filled while the liquid remains in the package. Time and space consuming sample preparation is skipped. The c-TPO also supports the well-known z factor method according to Uhlig. The c-TPO measures the CO₂ content according to Henry's law.



c-TPO

Inpack c-TPO Meter



Benefits

- Pointed problem analysis
 - both HO and DO are measured separately
- Cost saving
 - less labor intensive (fully automated measurement)
 - low maintenance

Application

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

Technical Data

Measuring range

TPO Value	0 - 2 mg/l
H ₂ O Value	0 - 1 mg
DO value	0 - 2 mg/l
H ₂ S volume	0 - 500 ml
CO ₂ value	2 - 15 g/l
Temperature	23.0 - 104.0° F / -5 - 40.0° C
Pressure	0.0 - 100 psi / 0.0 - 6.9 barg

Accuracy

DO value	± (1 ppb + 2% m.v.)
CO ₂ value	± 0.10 g/l
Temperature	± 0.20° C / F
Pressure	± 0.02 bar / psi

Memory capacity	up to 500 measurements
Container dimensions	Height min. 3.5 in - max. 14 in Diameter min. 2 in - max. 5 in
Voltage	100-240 V / AC 50-60 Hz
Interface	USB, bar code reader
Dimensions	max 21.5 x 13 x 44 (LxWxH in) min 21.5 x 13 x 26.5 (LxWxH in)
Weight	± 88 lb / 40 kg

Scope of Supply

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

Haffmans North America, Inc. reserves the right to make changes in the technical specifications at any time.

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