In the beer and beverage industries oxygen (O2) is an important gas. When it comes to product life and flavor stability, oxygen is detrimental. Preventing O2 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 O2 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 O2 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.

**GENERAL PRODUCT INFORMATION**

**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
**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>TPO, HSO, DO, Headspace Volume, Temperature, Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>O₂ sensor LHO</strong></td>
<td>Oxygen content 0.00 - 4.18% DO value 0.000 - 2.000 mg/l</td>
</tr>
<tr>
<td><strong>O₂ sensor WLO</strong></td>
<td>Oxygen content 0.00 – 100.00% DO value 0.0 – 45.0 mg/l</td>
</tr>
</tbody>
</table>

**Accuracy**

| **O₂ sensor LHO** | Oxygen content ±(0.002% + 2% m.v.) DO value ±(1 ppb + 2% m.v.)* |
| **O₂ sensor WLO** | Oxygen content ±(0.002% + 5% m.v.) DO value ±(0.1 mg/l + 5% 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