In the beer and beverage industries, the content of dissolved oxygen (O₂) is extremely important to both product quality and taste. Excess O₂ can compromise the flavor stability and lead to significantly reduced product shelf life.

The portable O₂ Gehaltometer, type o-DGM combines high accuracy with excellent measurement stability. This new optical O₂ measurement technology is greatly improved compared to the traditional O₂ measuring instruments. Frequent calibration of the O₂ measurement is not required. The bumper protects the o-DGM against physical impact in harsh environments.

The o-DGM is available in two measuring ranges:
- Low measuring range (LHO) for accurate DO measurement of beverages < 2,000 ppb (e.g. beer and deaerated water)
- Wide measuring range (WLO) for accurate DO measurement of beverages < 45 mg/l (e.g. wort, soft drinks and non-deaerated water)

Three measurement modes are available, single sample, continuous O₂ measurement from the production process and TPO measurement, based on the Uhlig method, from a package.

The data can be securely transferred to a PC using the interface cable.

HAFFMANS o-DGM
O₂ GEHALTEMETER

GENERAL PRODUCT INFORMATION

CUSTOMER BENEFITS
- Accurate product control
  - reproducible and operator independent results
- Cost saving
  - less labor intensive
  - low maintenance
  - reduction of beer loss

APPLICATIONS
- At-line, sampled directly during the production process (from process lines, vessels, tanks or kegs)
- Laboratory, after the production, sampled from a variety of bottles or cans
- TPO calculation from bottles or cans using sampling device ISD-special
# TECHNICAL DATA

<table>
<thead>
<tr>
<th>O₂ sensor LHO</th>
<th>Measuring range</th>
<th>0.0 - 2,000 ppb</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Accuracy</td>
<td>± 1 ppb + 2 % of m.v.*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O₂ sensor WLO</th>
<th>Measuring range</th>
<th>0.1 - 45.0 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Accuracy</td>
<td>&lt; 5 % of m.v.*</td>
</tr>
</tbody>
</table>

- **Measuring units**: ppb, μg/l, ppm, mg/l, % a.s.

- **Temperature**: -5.0 - 40.0 °C, acc. ± 0.2 °C

- **Memory capacity**: Up to 400 measurements

- **Voltage**: 80-240 V / AC 50-60 Hz

- **Interface**: RS-232

- **Dimensions**: 210 x 130 x 200 (LxWxH mm)

- **Weight**: ca. 2.4 kg

* at 20 °C

# SCOPE OF SUPPLY

- O₂ Gehaltemeter, type o-DGM
- Bumper
- Service set with power supply (Euro or US plug)
- Software set (CD + Interface cable)
- Set of two sample hoses
- Instruction manual

# OPTIONS

- Certificate of measurement
- Quick charger
- Inpack 2000 Sampling Device "special"