

HAFFMANS o-DGM O₂ GEHALTEMETER

GENERAL PRODUCT INFORMATION

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 Gehaltemeter, 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.



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**

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O₂ GEHALTEMETER

TECHNICAL DATA

O₂ sensor LHO

Measuring range	0.0 - 2,000 ppb
Accuracy	± 1 ppb + 2 % of m.v.*

O₂ sensor WLO

Measuring range	0.1 - 45.0 mg/l
Accuracy	< 5 % of m.v.*

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"



Bumper



HAFFMANS B.V.

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