

OXYGEN MEASURING DEVICES FOR DISSOLVED OXYGEN IN LIQUIDS



HIGHLIGHTS:

- Automatic air pressure compensation
- Salinity correction
- Simple calibration in atmospheric air

ADDITIONAL FUNCTIONS GMH 3651:



MEAS. UNITS: O₂-CONCENTRATION O₂-SATURATION
AND O₂-PARTIAL PRESSURE (GMH3651 ONLY)

GMH 3611

Art. no. 605922

Oxygen measuring device incl. oxygen electrode, with 4 m cable

GMH 3651

Art. no. 605924

Oxygen measuring device incl. oxygen electrode with data logger, with 4 m cable

Specifications:

Measuring range: (device)

O₂-concentration: 0.00 ... 70.00 mg/l (ppm)
(resolution selectable)

O₂-saturation: 0.0 ... 600.0 % O₂
(resolution selectable)

O₂-partial pressure: 3651: 0 ... 1200 hPa O₂
(0.0 ... 427.5 mmHg)

Temperature: 0.0 ... 50.0 °C

Pressure: 3611: 10 ... 1200 hPa abs.
3651: 300 ... 5000 hPa abs. or
0 ... 100.0 m water column*
(with pressure port)

Accuracy: (at nominal temperature = 25 °C)

Oxygen: ±1.5 % of m.v. ±0.2 mg/l
(0 ... 25 mg/l) or
±2.5 % of m.v. ±0.3 mg/l
(25 ... 70 mg/l)

Temperature: ±0,1 °C ±1 digit

Pressure: ±0.5 % FS ±1 digit
±3 hPa or 0,1 % of m.v.
±2 hPa (750 ... 1100 hPa)

Sensor connection: 6-pin screened Mini-DIN-socket

Sensor: Active membrane type.
Electrode-Ø front: approx. 12 mm,
overall length: approx. 220 mm,
anti buckling glanding, neck collar:
Ø approx. 20 mm, 4 m connection
cable with Mini-DIN-plug

Response time: 95 % in 10 s, depends on temperature

Operation life: approx. 3 years, depends on maintenance

Working temperature: 0 ... +40 °C

Working pressure: max. 3 bar
Operating pressure sensor GWO
3600 max. 3000 hPa rel. or 4000
hPa pay attention to abs.!

Flow rate: min. 30 cm/s

Display: 2 x 4 digit LCDs (12.4 / 7 mm high)

Interface:

serial interface, direct connection to RS232 or USB interface of a PC via electrically isolated interface converter.

Power supply:

9 V-battery as well as additional d.c. connector for external 10.5-12 V direct voltage supply. (suitable power pack: GNG10/3000)

Battery life:

approx. 500 h

Housing:

impact-resistant ABS, integrated pop-up clip for table top or suspended use.

Dimensions:

142 x 71 x 26 mm (H x W x D)

Weight:

approx. 300 g (incl. battery and probe)

Scope of supply:

Device incl. electrode, GWOK01 and KOH electrolyte, battery, manual

Additional functions:

Temperature compensation: automatic via temperature sensor integrated in electrode.

Air pressure compensation: automatic via integrated pressure sensor. Display of current air pressure.

Correction of salinity:

autom. salinity value can be set via keyboard from 0.0 ... 70.0

Calibration:

1-point calibration: extremely simple quick calibration in atmospheric air.

additional at GMH 3651: 2- and 3-point-calibration

Calibration interval:

The device asks for a recalibration after a selectable time period (1 - 365 days or inactive).
GMH 3651: additional calibration history

Analog output (GMH 3651 only):

0 ... 1 V, freely adjustable

Alarm (GMH 3651 only):

2 Alarm (O₂ and temperature) with separate alarm limits, Alarm horn / visual / interface

Data logger (GMH 3651 only):

cyclic: 10.000 data sets, manual: 1.000 data sets (with measuring point input, 40 adjustable measuring point texts or measuring point numbers)

* There is the possibility for hydrostatic depth measurements with special accessories (upon request / pressure connection). This allows in combination with the logger function e.g. comfortable recordings of oxygen profiles in waters.

Variants:

GMH 3611-L10

Art. no. 606233

Device GMH 3611 with sensor with 10 m cable length

GMH 3611-L30

Art. no. 607086

Device GMH 3611 with sensor with 30 m cable length

GMH 3651-L10

Art. no. 606105

Device GMH 3651 with sensor with 10 m cable length

GMH 3651-L30

Art. no. 606106

Device GMH 3651 with sensor with 30 m cable length

Accessories and spare parts:

GMH 3611-GL

Art. no. 606310

Oxygen measuring device without accessories

GMH 3651-GL

Art. no. 606312

Oxygen measuring device without accessories

GWO 3600-L04

Art. no. 603895

Spare sensor with 4 m cable

GWO 3600-L10

Art. no. 603258

Spare sensor with 10 m cable

GWO 3600-L30

Art. no. 603259

Spare sensor with 30 m cable

GWOK 01

Art. no. 601411

Spare diaphragm head

GAS 3600

Art. no. 603497

Working set (consisting of 3 spare diaphragm heads and 100 ml KOH-electrolyte)

GSKA 3600

Art. no. 601414

Protective PVC cap, submerged, for use in still bodies of water

GSKA 3610

Art. no. 607267

Protective cap made of gunmetal, salt water resistant, submerged, also suitable for use with greater depths or with a flow

KOH 100

Art. no. 603356

Spare electrolyte 100 ml

GCAL 3610

Art. no. 611371

Calibration bottle

