

Oxygen measuring devices for dissolved oxygen in liquids



- Automatic air pressure compensation
- Salinity correction
- Extremely small measuring probe
- Min./Max. value memory, Hold function
- Serial interface
- Simple calibration in atmospheric air

MEAS. UNITS: O₂-CONCENTRATION

O₂-SATURATION

AND O₂-PARTIAL PRESSURE (GMH3630 ONLY)

GMH 3610

Oxygen measuring device incl. oxygen electrode

GMH 3630

Oxygen measuring device incl. oxygen electrode

Specification:	
Measuring ranges: (device)	
O ₂ -concentration:	3610: 0.0 ... 25.0 mg/l 3630: 0.0 ... 70.0 mg/l / 0.00 ... 25.00 mg/l
O ₂ -saturation:	3610: 0 ... 300 % 3630: 0 ... 600 % or 0.0 ... 250.0 %
O ₂ -partial pres.:	3630: 0 ... 1200 hPa O ₂ / 0.0 ... 570.0 hPa (0.0 ... 427.5 mmHg or 0 ... 900 mmHg)
Temperature:	3610 / 3630: 0.0 ... 50.0 °C
Pressure:	3630: 500 ... 1100 hPa abs.
Accuracy: (at nominal temperature = 25 °C)	
Oxygen:	3610: ±1.5 % v. MW ±0.2 mg/l 3630: ±1.5 % v. MW ±0.2 mg/l (0...25 mg/l) or ±2.5 % v. MW ±0.3 mg/l (25 ... 70mg/l)
Temperature:	± 0,1 °C ± 1 digit
Pressure:	± 0,5 % FS ± 1 digit
Sensor connection:	6-pin screened Mini-DIN-socket.
Electrode:	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 or more, depends on maintenance
Working temp.:	0 ... +40 °C
Working pressure:	max. 3 bar
Flow rate:	min. 30 cm/s
Display:	2x 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, type IEC 6F22 (included) as well as additional d.c. connector for external 10.5-12 V direct voltage supply. (suitable power pack: GNG10/3000)

Power consumption:	approx. 3 mA
Housing dimensions:	142 x 71 x 26 mm (H x W x D), impact-resistant ABS, Front side IP65, integrated pop-up clip for table top or suspended use.
Weight:	approx. 300 g (incl. battery and probe)

Functions:

Min-/Max-value memory

Hold function

Auto-Off-Function: 1 ... 120 min, off

Low battery warning: Δ u. , bAt ,

Temperature compensation:

automatic via temperature sensor integrated in electrode.

Air pressure compensation:

GMH3610: enter current air pressure via keyboard
GMH3630: automatic via integrated pressure sensor. Display of current air pressure.

Correction of salinity (GMH3630 only):

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

Calibration:

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

Scope of supply: device incl. electrode, GWOK01 and KOH electrolyte

Additional features of GMH3630:

- Measuring of air pressure by means of integrated pressure sensor
- Extended measuring range for O₂
- O₂-partial pressure measurement
- Correction of salinity
- 2-point calibration: first point at atmospheric air, second point at upper measuring range.



GOX 20

Oxygen measuring device, operative, incl. oxygen probe and battery

Specification:	
Measuring range:	
Temperature:	0.0 ... 40.0 °C
Oxygen:	0.0 ... 20.0 mg/l O ₂
Resolution:	
Temperature:	0.1 °C
Oxygen:	0.1 mg/l O ₂
Accuracy: (at nominal temperature = 25 °C)	
Temperature:	±0.3 °C (range 0-3 °C)
Oxygen:	±2 % of m.v. ±0.2 mg/l
Electrode:	active diaphragm type. Electrode-Ø front: approx. 12 mm, length: approx. 170 mm, connecting cable approx. 2 m permanently connected to device.
Response time:	95 % in 10 s, depending on temperature.
Operation life:	approx. 3 years or more depending on maintenance
Operation pressure:	max. 3 bar
Temperature compensation:	automatically via temperature sensor integrated in electrode
Calibration:	simple quick-calibration in atmospheric air
Display:	3½-digit LCD display, 13 mm high
Working temperature:	0 ... 50 °C
Power supply:	9 V-Battery, included
Power consumption:	max. 1 mA
Low battery warning:	automatisch bei verbrauchter Batterie „BAT“
Dimensions:	106 x 67 x 30 mm, ABS plastic housing
Weight:	approx. 250 g (ready for use)
Scope of supply:	device incl. electrode, GWOK01 and KOH electrolyte

GAS 3600

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

GWO 3600

Spare electrode with 4 m cable

KOH 100

Spare electrolyte 100 ml

Options:

- electrode with 10 m cable
- electrode with 30 m cable

Accessories and spare parts:

GSKA 3600

protection cap for depth measuring

GWOK 01

spare diaphragm head

GKN 3600

calibration refill set (consisting of 100 ml calibration solution, 10 ml catalytic solution, measuring pipette)