Oxygen measuring devices for dissolved oxygen in liquids

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COD-CETRINETS	
Galleti D, / Disselfued D,	ME
	CMU Sectors

HIGHLIGHTS:

- Automatic air pressure compensation
- Salinity correction
- Extremely small measuring probe
- Serial interface
- Simple calibration in atmospheric air

ADDITIONAL FUNCTIONS GMH 3651:



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

GMH 3611

Oxygen measuring device incl. oxygen electrode

GMH 3651

Oxygen measuring device incl. oxygen electrode with data logger

Specification

Handheld instrument

Control

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Measuring ranges	s: (device)
O ₂ - concentration:	0.00 70.00 mg/l (ppm) (resolution selectable)
O ₂ -saturation:	0.0 600.0 % O ₂ (resolution selectable)
O ₂ -partial pressure:	3651: 0 1200 hPa O ₂ (0.0 427.5 mmHg)
Temperature:	0.0 50.0 °C
Pressure:	3611: 10 1200 hPa abs. 3651: 10 11000 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 (025 mg/l) or ±2.5 % of m.v. ±0.3 mg/l (25 70 mg/l)
Temperature:	$\pm 0.1 \text{ °C} \pm 1 \text{ digit}$
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
Electrode:	Active membrane type. Electrode-Ø front: approx. 12 mm, overall length: approx. 220 mm, anti buckling glan- ding, 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 temp.:	0 +40 °C
Working pressure:	max. 3 bar
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

Options:

electrode with 10 m cable electrode with 30 m cable

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)	
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)	
Scope of supply:	Device incl. electrode, GWOK01 and KOH electrolyte.	
Additional functions:		
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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

* 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.

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)



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) ±1 digit		
Temperature:	±0.3 °C (in range 0-30 °C)	
Oxygen:	±2 % o. m.w. ±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:	31/2-digit LCD display, 13 mm high	
Working temperature:	0 50 °C	
Power supply:	9 V -Battery, included	
Power consumption:	max. 1 mA	
Dimensions:	106 x 67 x 30 mm (H x W x D), impact-resistant ABS 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

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