

WATERPROOF HANDHELD MEASURING DEVICE FOR MEASURING DISSOLVED OXYGEN IN WATER



HIGHLIGHTS

- Waterproof and durable (protective silicone case)
- Large double display with background lighting
- New oxygen sensor GWO 5610
- Environmental pressure compensation with integrated barometer

ADDITIONAL HIGHLIGHTS GMH 5650

- Data logger and alarm function
- Analogue output, pressure connection

ADDITIONAL FUNCTIONS - GMH 5650:



GMH 5630

Art. no. 606880

Waterproof dissolved O₂ handheld measuring device without accessories

GMH 5650

Art. no. 606882

Waterproof dissolved O₂ handheld measuring device without accessories with data logger and alarm

Application:

Oxygen monitoring in aquaculture and aquaria. Testing of well water, sewer systems and in wastewater treatment plants, also suitable for harsh environments. Delivery can take place ready for use (filled) or dry. Electrodes delivered try are long lasting and ready for use within about 1 h after filling.

Specifications:	GMH 5630	GMH 5650
Measuring channels:	O ₂ , T, air pressure (integrated)	O ₂ , T, air pressure (integrated) / measuring depth *1)

Measuring ranges

O₂-concentration:	0.00 ... 70.00 mg/l (ppm) (Variable resolution)	
O₂-saturation:	0.0 ... 600.0 % O ₂ (Variable resolution)	
O₂-partial pressure:	0 ... 1200 hPa O ₂ (0.0 ... 427.5 mmHg)	
Temperature:	0.0 ... 50.0 °C	
Air pressure:	10 ... 1200 hPa abs	300 ... 5000 hPa abs
Measuring depth:	-	0 ... 40.0 m water column *1)

Accuracy

Oxygen:	±1.5 % of m.v. ±0.2 mg/l (0 ... 25 mg/l) bzw. ±2.5 % of m.v. ±0.3 mg/l (25 ... 70 mg/l)	
Temperature:	0.0 ... 50.0 °C	
Air pressure:	10 ... 1200 hPa abs	300 ... 5000 hPa abs
Sensor:	GWO 5610, active diaphragm type with platinum cathode, Ø 12 mm, standard cable length 2 m, 7 pin bayonet connection	
Response time:	90 % in 10 s	
Service life:	approx. 3 years, depending on usage and care	
Display:	4 ½ digit, 7-segment, illuminated (white)	

Working temperature: Device: -25 ... +50 °C
Sensor: 0 ... 40 °C

Sensor operating pressure: max. 3 bar corresponds to max. 30 m water depth

Inward flow: min. 20 cm / s

Power supply: 2 x AAA battery, power consumption: 0.9 mA

Battery life: approx. 1000 h (without lighting)

Ingress protection: IP65 / IP67

Housing: Impact-resistant ABS, with stand/hanging bracket

Dimensions: 160 x 86 x 37 mm (H x W x D) including protective silicone case

Weight: approx. 250 g, including battery and protective case

Scope of supply: Device incl. batteries (2 x AAA), protective silicone case, calibration protocol, manual, quick guide

Additional Functions:

Salinity correction: 0.0 ... 70.0

Pabs / height correction: Automatic with integrated sensor

Measuring depth (only GMH 5650): Hydrostatic depth measurement *1)

Output / external supply: OUT jack: 38400 baud interface, 5 V external supply

Additional with GMH 5650: Analogue output 0 ... 1 V, adjustable

Calibration: 1 point air, easy calibration to air at the push of a button

Additional with GMH 5650: 1 point water, 2 point or 3 point (air and zero point and 100 % O₂)

GLP: Calibration interval

Additional with GMH 5650: Calibration history

Data logger (only GMH 5650): Cyclical: 10,000, Single: 1000, single value logger with measuring point input

Alarm (only GMH 5650): 2 alarm channels (O₂ and temperature) with separate alarm thresholds alarm notification horn / visual / interface

*1) A simple hydrostatic depth measurement can be made with special accessories. For instance, oxygen profiles in waste water can be recorded very conveniently together with the logger function.



HIGHLIGHTS:

- Significantly lower inward flow required than with the predecessor model
- Dry storage possible for long-term storage needs
- Compact 12 mm diameter retained!

GWO 5610-L02

Art. no. 607386

Dissolved oxygen sensor with 2 m cable

General:

Standard, for laboratory use, electrode is delivered filled, dry delivery available on request

Accessories and spare parts:

GWO 5610-L04

Art. no. 607764

Spare sensor GWO 5610 with 4 m cable (field use)

GWO 5610-L10

Art. no. 607765

Spare sensor GWO 5610 with 10 m cable (field use)

GWO 5610-L30

Art. no. 607766

Spare sensor GWO 5610 with 30 m cable (field use)

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



GWOK 02

Art. no. 608012

Spare membrane cap

GAS 5610

Art. no. 608032

Work set (3 spare membrane caps, 100 ml of electrolyte)

TMV 3600

Art. no. 608824

Depth measuring device

KOH 100

Art. no. 603356

Spare electrolyte, 100 ml

GCAL 3610

Art. no. 611371

Calibration bottle