

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

Handheld instrument for dissolved oxygen without accessories

GMH 5650

Art. no. 606882

Handheld instrument for dissolved oxygen with data logger without accessories

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) or ±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)
Protection rating:	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 (GMH 5650 only):** 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.

GMH 5630-L02

Art. no. 607470

Handheld instrument for dissolved oxygen including sensor GWO 5610, 2 m cable

GMH 5650-L02

Art. no. 607474

Handheld instrument for dissolved oxygen with data logger including sensor GWO 5610, 2 m cable

Varianten:**GMH 5630-L04**

Art. no. 606881

Handheld instrument for dissolved oxygen with sensor with 4 m cable length

GMH 5630-L10

Art. no. 607471

Handheld instrument for dissolved oxygen with sensor with 10 m cable length

GMH 5630-L30

Art. no. 607472

Handheld instrument for dissolved oxygen with sensor with 30 m cable length

GMH 5650-L04

Art. no. 606883

Handheld instrument for dissolved oxygen with data logger with sensor with 4 m cable length

GMH 5650-L10

Art. no. 607478

Handheld instrument for dissolved oxygen with data logger with sensor with 10 m cable length

GMH 5650-L30

Art. no. 607479

Handheld instrument for dissolved oxygen with data logger with sensor with 30 m cable length

Accessories and spare parts:**GKK 5001**

Art. no. 611606

with cut-outs for 1 device of the GMH 5xxx-/7500 series and accessories for water analysis (395 x 295 x 106 mm), p.r.t page 112