

WATERPROOF METER FOR MEASURING PH/REDOX



WATER-PROOF DEVICE AND PLUG CONNECTIONS



HIGHLIGHTS:

- GLP functions (good laboratory practice)
- large backlit double display
- high resolution (0.001 pH/0.1 mV)
- including test report

ADDITIONAL FUNCTIONS OF GMH 5550:



GMH 5530

Item No. 600041
Waterproof pH/ORP/temperature meter, device only (without electrode)

GMH 5550

Item No. 600043
Waterproof pH/ORP/temperature meter with logger, device only (without electrode)

APPLICATION:

- Measurements in water and aquaristics, fish farming
- Drinking water, process monitoring, soil measurements
- Food production and monitoring
- Laboratory: medicine, pharmacy, chemistry
- Quality assurance

TECHNICAL SPECIFICATIONS:

Measuring ranges

pH:	-2,000..16,000 pH (resolution selectable)
Redox / mV:	-2000.0..2000.0 mV (resolution can be selected) (based on hydrogen system DIN38404: -1792 .. + 2207 mV _H)
Temperature:	-5.0 .. + 150.0 °C; 23.0..302.0 °F
rH:	0.0..70.0 rH

accuracy

pH:	± 0.005 pH
Redox / mV:	± 0.05 % FS (mV or mV _H)
Temperature:	± 0.2 °C (in the range from -5.0 to 100.0 °C)
rH:	± 0.1 rH

connections

pH, redox:	BNC socket, suitable for standard BNC plugs and waterproof BNC plugs, plus banana socket (4 mm) for separate reference electrode, input resistance: 10 ¹² ohms
Temperature:	2 banana sockets (4 mm) for temperature sensors (Pt1000 or NTC 10K)
Interface / supply:	4-pole bayonet connection for serial interface and supply (with USB 5100 accessory)

working conditions

Display:	two 4 ½ digit 7-segment displays (15 mm and 12 mm)
-----------------	--

PH CALIBRATION

Automatically:	1-, 2- or 3-point calibration, GREISINGER standard buffer or buffer according to DIN19266 (A, C, D, F, G)
Manually:	1-, 2- or 3-point calibration
Power supply:	2 x AAA batteries, power consumption: <1.0 mA
Battery life:	1000 hours
Housing:	impact-resistant ABS, with stand-up/hanging bracket
Protection class:	IP65/IP67
Dimensions:	160 x 86 x 37 mm (H x W x D) including protective cover
Weight:	250 g including battery and protective cover
Scope of delivery:	Device, battery, test report, operating instructions

ADDITIONAL FUNCTIONS:

Status display for pH electrode and battery:

Bar graph

Background lighting:

duration adjustable (off, 5 s..2 min.)

Automatic temperature compensation:

If the temperature sensor is plugged in and the "pH" operating mode is active, there is automatic temperature compensation (ATC) in the range 0..150 °C. Manual entry is possible without a temperature sensor.

pH calibration:

either 1-, 2- or 3-point calibration with characteristic curves for GREISINGER standard buffers (GPH or PHL) and buffers according to DIN19266 or with manual buffer entry. With automatic buffer recognition, the temperature dependency of the buffers is automatically compensated.

Permissible electrode data: Asymmetry: ± 55 mV / slope: 45..62 mV / pH Determination of the condition of the pH electrode during calibration.

Redox measurement (ORP): 2 options:

"mV" Standard redox or mV measurement
"mV_H" Conversion to hydrogen system according to DIN38404 part 6

rH measurement:

The rH value is calculated using an ORP measurement and manual entry of the pH value.

Calibration interval: after a selectable period (1..365 days or inactive) a recalibration is requested.

Calibration memory (only GMH 5550): last 16 calibrations

Analog output (GMH 5550 only):

0..1 V, freely scalable, connection via 4-pole bayonet socket, resolution 13 bit, accuracy 0.05 % at nominal temperature

Data logger (GMH 5550 only):

with measuring point input, recording interval: 1 s..1 h, recording duration: 416 days at an interval of 1 h, measured value storage: cyclical: 10,000 data records, individual: 1,000 data records

ACCESSORIES OR SPARE PARTS:

EBS 20M

Item No. 601158
Measurement data acquisition software for EASYBus & GMH

GSOFT 3050

Item No. 601336
Windows software for GMH 3000 and GMH 5000 with logger

USB 5100

Item No. 601095
Interface converter GMH 5xxx <=> PC, Galvanic isolation

GN5/5000

Item No. 602287
Plug in power supply for GMH 5XXX series

GKK 5001

Item No. 611606
Case for GMH 5000/G7500 series water analysis/universal, 395 x 295 x 106 mm (W x H x D)

DEVICE INCLUDING ELECTRODE



GMH 5530-G125

Item No. 475746
Waterproof pH/ORP/temperature meter, device complete with pH electrode GE 125 (PT1000)

GMH 5550-G125

Item No. 475747
Waterproof pH/ORP/temperature meter with logger, device complete with pH electrode GE 125 (PT1000)