

WATERPROOF HANDHELD MEASURING DEVICE FOR PH / REDOX WITH EXTERNAL PROBE

GS.GMH5550

SPECIFICATIONS

| | |
|--------------------------|---|
| Measuring ranges: | |
| pH: | -2.000 ... 16.000 pH (resolution selectable) |
| Redox / mV: | -2000.0 ... 2000.0 mV (resolution selectable) (for 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 of -5.0 ... +100.0 °C) |
| rH: | ±0.1 rH |
| Connections: | |
| pH, Redox: | BNC-female connector, compatible to standard BNC-plugs and waterproof BNC-plugs, additional banana-jack (4 mm) for separate reference electrode, input resistance: 10 ¹² Ohm |
| Temperature: | 2 banana-jacks (4 mm) for temperature probes (Pt1000 or NTC 10K) |
| Interface / Supply: | 4-pole bayonet connector for serial interface and supply (with accessory USB 5100) |
| Working conditions: | -25 ... +50 °C; 0 ... 95 % RH (non condensing) |
| Display: | two 4½ - digit seven-segment display (15 mm and 12 mm) |
| pH-Calibration | |
| Automatically: | 1-, 2- or 3- point calibration, GREISINGER standard buffer or buffer to DIN19266 (A, C, D, F, G) |
| Manually: | 1-, 2- or 3- point calibration |
| Power supply: | 2 x AAA-battery (incl. in scope of supply) power consumption: <1.0 mA |
| Battery life time: | 1000 hours |
| Housing: | impact resistant ABS housing with pop-up clip |
| Protection class: | IP65 / IP67 |
| Dimensions: | 160 x 86 x 37 mm (H x W x D) incl. protection cover |
| Weight: | 250 g incl. battery and protection cover |
| Scope of supply: | Device, battery, calibration protocol, manual |

APPLICATION:

- Waters measuring, fishkeeping, aquafarming
- Drinking water monitoring, process control, soil measuring
- Food production and monitoring
- Laboratory: Medicine, pharmaceuticals, chemistry



ADDITIONAL FUNCTIONS

Additional Display for pH-Electrode and Battery: Bar graph display

Background illumination: duration adjustable (off, 5 s ... 2 min)

Automatic Temperature Compensation:

There is an automatic temperature compensation (ATC) in the range of 0 - 105 °C for operation mode "pH" and if a temperature probe is connected. Without connected probe the temperature can be input manually.

pH-Calibration:

1-, 2- or 3- point calibration with characteristics bend for standard buffer, buffer to DIN 19266 or manual buffer input.

The used buffer is detected automatically. The temperature dependency of the buffer is automatically compensated.

Permissible electrodes' data: Asymmetry: ±55 mV / Slope: 45 ... 62 mV/pH
The condition of pH-Electrode is checked at each calibration.

Redox-Measurement (ORP): 2 choices:

„mV“ Standard-redox-, ORP or mV- measurement

„mV_H“ Conversion to hydrogen systems according to DIN38404 part 6

rH-Measurement:

The rH-value is calculated from a measured Redox-value and a manually input pH-value.

Calibration interval:

The device asks for a recalibration after a selectable time period (1 - 365 days or inactive)

Calibration memory (GMH 5550):

last 16 calibrations

Analog output (GMH 5550):

0 - 1 V, freely adjustable, connection with 4-pole bayonet connector, resolution 13 bit, accuracy 0.05 % at nominal temperature

data logger (only GMH 5550):

with measuring point input, adjustable cycle time: 1 s ... 1 h

recording time: 416 days at intervall 1 h,

data logger: cyclic: 10000 data sets, manual: 1000 data sets

ACCESSORIES AND SPARE PARTS

EBS 20M

Product-ID: 601158

Software for long-term monitoring (p.r.t. page 76)

GSOFT 3050

Product-ID: 601336

Software for operation of logger devices (p.r.t. page 77)

USB 5100

Product-ID: 601095

Electrically isolated interface converter with supply of device via USB

GNG 5 / 5000

Product-ID: 602287

Plug-in power supply 5 V DC, suitable for GMH 5000 - series (p.r.t. page 74)

GKK 3500

Product-ID: 601052

Device case (394 x 294 x 106 mm) with punched lining for 1 device (p.r.t. page 72)

Le caratteristiche dichiarate possono cambiare senza alcun preavviso



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