

WATERPROOF HANDHELD MEASURING DEVICE FOR PH / REDOX WITH EXTERNAL PROBE

GS.GMH5530

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 4 1/2 - 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



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 interval 1 h,
data logger: cyclic: 10000 data sets, manual: 1000 data sets

APPLICATIONS:

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

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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