(HOLD)

AUTO OFF

BAT

HOLD



WATER-PROOF

DEVICE AND PLUG CONNECTIONS

GMH 5530

Product-ID: 600041

Waterproof handheld measuring device without electrode

GMH 5550

Product-ID: 600043

Waterproof handheld measuring device with analog output and data logger, without electrode

Application:

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

Working conditions:

Display:

pH-Calibration

Manually:

Housing:

Power supply:

Battery life time:

Protection class:

Automatically:

• Quality management	
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)

buffer to DIN19266 (A, C, D, F, G)

2 x AAA-battery (incl. in scope of supply) power consumption: <1.0 mA

impact resistant ABS housing with pop-up clip

1-, 2- or 3- point calibration

1000 hours

IP65 / IP67

-25 ... +50 °C; 0 ... 95 % RH (non condensing)

two $4 \frac{1}{2}$ - digit seven-segment display (15 mm and 12 mm)

1-, 2- or 3- point calibration, GREISINGER standard buffer or

GLP-FEATURES (GOOD LABORATORY PRACTICE)

BIG DUAL DISPLAY WITH

BACKGROUND ILLUMINATION

HIGH RESOLUTION (0.001PH / 0.1 MV)

ADDITIONAL FUNCTIONS GMH 5550:





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 GREISINGER 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" 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. page76)

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)