PH / ORP / TEMPERATURE MEASURING DEVICES





STANDARD-FUNCTIONS:











ORP MODE ALLOWS FOR AUTOMATIC CONVERSION TO HYDROGEN SYSTEM ELECTRODES

AUTOMATIC OR MANUAL TEMPERATURE COMPENSATION

AUTOMATIC BUFFER DETECTION

RATING FUNCTION OF ELECTRODE'S QUALITY

ADDITIONAL FUNCTIONS GMH 3551:





NEW: ANALOG OUTPUT

FOR ALL VARIANTS



GMH 3511

Product-ID: 604953

pH / ORP / temp. measuring device w/o accessories

GMH 3531

Product-ID: 602076

pH / ORP / temp. measuring device w/o accessories

GMH 3551

Product-ID: 602817

pH / ORP / temperature measuring device with data logger w/o accessories

Specifications:

Measuring ranges:

-5.0 ... +150.0 °C or 23.0 ... +302.0 °F Temperature: pH: 0.00 ... 14.00 pH

Redox (ORP): -1999 ... +2000 mV Based on hydrogen system:

-1792 ... +2207 mV_H (DIN38404) 0.0 ... 70.0 rH (not GMH 3511)

Accuracy (device): ±1 digit at nominal temperature = 25 °C

±0.2 °C (at range -5 ... 100 °C) Temperature:

pH: ±0.01 pH

Redox (ORP): $\pm 0.1\%$ FS (mV or mV_H) ±0.1 rH (not GMH 3511) rH:

Sensor connections:

Temperature: 2 x 4 mm

banana socket for Pt1000. 2-wire

pH, Redox: **BNC** socket

two 4-digit LCD displays Display: (12.4 and 7 mm high)

Working temperature: 0 ... +50 °C

Storage temperature: -20 ... +70 °C

Interface: serial interface; connectable to RS232 or USB interface of PCs via electrically isolated interface converter GRS 3100, GRS 3105

or USB 3100 N (accessories). 9 V battery, additional socket for external 10.5-12 V direct current Power supply:

power supply (adequate PSU: GNG10/3000).

Current consumption: < 1 mA

Housing: Impact-resistant ABS housing,

membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip for table top or suspended use

Dimensions: 142 x 71 x 26 mm (H x W x D)

approx. 170 g Weight: Scope of supply: Device, battery, manual

Functions:

Automatic temperature compensation:

In operation mode "pH" an automatic temperature compensation (ATC) is possible in the range 0 ... 105 °C if a temperature probe is connected. Otherwise a manual input of temperature is possible.

pH calibration:

Buffer selection, temperature compensation and sensor rating according to calibration result (from 10 ... 100 %) is done automatically

GMH 3511: 2-point calibration with Greisinger buffer

capsules (GPH 4, 7, 10) **GMH 3531, GMH 3551:** Either 1-, 2- of 3- point calibration with Greisinger standard buffer, buffer according to DIN19266 (A, C, D, F, G) or manual buffer selection.

Calibration interval (not for GMH 3511):

The device asks for a recalibration after a selectable time period (1 - 365 days or inactive) GMH 3551: Calibration history additional

ORP measurement (Redox):

There are 2 choices:

"mV": standard ORP or mV measurement "mV_H": temp. compensated conversion to hydrogen system acc. to DIN38404 part 6, table 1 based on the standard ORP electrode (e.g. GE105 with Ag/AgCl system and 3 mol KCl) used.

rH measurement: (except GHM 3511):

Calculation of the rH value by means of a ORP measurement and by manually entering the pH-value. The pH-value may also be taken from a previous pH measurement.

Analog output:

... 1 V, not changeable 0 ... 1 V = 0 ... 14 pH or -2000 .2000 mV, connection via 3-pole jack socket Ø 3.5 mm, resolution 13 bit, accuracy 0.05 % at nominal temperature GMH 3551: Analog output freely scalable

data logger (GMH 3551 only):

Distribuito da:

Zetalab s.r.l.

cyclic 10,000 data sets, manual: 1,000 data sets (with measuring point input, 40 adjustable measuring point texts or measuring point numbers)

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7etalab.it

GMH 3511-Set

Product-ID: 605021

Full set for pH/temperature measurements

General:

For comfortable measurements of pH value and temperature. Even easier operation ensured by a menu reduced to 5 points for GMH 3511. Minimal measuring effort because of maintenance-free gel-electrode and automatic temperature compensation.

Specifications:

p.r.t. GHM 3511

Scope of supply:

GMH 3511, pH electrode GE 114, temperature probe GTF 55 B, buffer capsules 5 x GPH 4. 5 x GPH 7, 2 plastic wide mouth bottles **GPF 100**

Accessories:

GKK 1105

Product-ID: 601050 appropriate case

Accessories and spare parts:

GMH 55 ES

Product-ID: 603066

Additional set: pH-electrode GE 100 BNC, temperature probe GTF 55 B (Pt1000), case GKK3500, GAK1400

Temperature probe, Pt1000 (see page 47)

Product-ID: 600704

Standard electrode, BNC plug

GNG 10/3000

Plug-in power supply

GKK 3000

Case with cut-outs for GMH 3xxx

USB 3100 N

Product-ID: 601092

Interface converter to USB, electrically isolated

EBS 20M

Product-ID: 601158

measuring data (see page 76).

Product-ID: 602764

GE 100-BNC

GE 117-BNC

Product-ID: 600730

pH electrode with integrated Pt1000 sensor (see p. 48)

Product-ID: 600273

Product-ID: 601048

Software for read-out, recording and archiving of