



Follow-up model to
GPRT 1400 & GPHR 1400

APPLICATIONS:

- waters, aquaristics, fish farming
- drinking water and process monitoring
- soil measurements
- food production and control
- swimming pools
- education

FEATURES:

- min-, max-, hold-value
- automatic calibration
- electrode status rating
- automatic temperature compensation
- double display for pH (or mV) and temperature

EASY HANDLING

EXCHANGEABLE ELECTRODE

BNC-CONNECTION

ANALOG OUTPUT

GMH 3511 set

Complete set for pH measurements

Item no. 605021

The set contains:

pH measuring device GMH 3511, pH electrode GE 114, temperature probe GTF 55 B, buffer capsules GPH 4 and GPH 7 (5x of each type), 2 wide mouth bottles GPF 100

INFORMATION:

The pH value is an indicator of the acidity of a medium determined by the hydrogen ion concentration. The value pH 7 corresponds to chemically neutral, values below pH are acid, values higher than pH 7 are alkaline.

The pH value influences many biological processes in waters, e.g. the ammonia formation. The ideal value in waters is in the range of pH 7 ... 8, however, in reality values between pH 5 ... 10 also occur. Values below pH 6 are problematic for many fish species, values higher than pH 9 may lead to ammonia formation, a dangerous fish poison.



HIGHLIGHTS:

- robust electrode for general use
- low-cost and low-maintenance
- Storage bottle included in scope of supply

GE 114

Gel-filled pH combination electrode

- measuring range: 0-14 pH
- temperature range 0-60 °C
- for conductivities >200 µS/cm
- cable: 1 m



HIGHLIGHTS:

- stable and versatile
- precise Pt1000 sensor element
- fast response

GTF 55 B

Immersion probe for liquids

- 3 mm stainless V4A tube
- temperature range: -5 - 150 °C
- cable: approx. 1 m with 2 x 4 mm
- banana plugs



GPH 7 / GPH 4 + 2x GPF 100

buffer capsules for electrode adjustment

- buffer capsules with long shelf life
- only pure water is additionally needed for the calibration solution

GMH 3511 in set with GE 114 pH combination electrode and GTF 55 B temperature probe

Specifications:

Measuring range:	0.00 ... 14.00 pH with pH electrode GE 114 -5.0 ... +150.0 °C (23.0 ... 302.0 °F) with temperature probe GTF 55 B with optionally available ORP electrode GE 105-BNC: -1999 ... +2000 mV
Resolution:	0.01 pH / 0.1 °C
Accuracy (only device):	± 0.01 pH ± 1 digit, ± 0.2 °C (at nominal temperature 25 °C in measuring range -5..100 °C)
Working conditions:	0 ... 50 °C; 0 ... 80 % RH (non condensing)
Storage temperature:	-20 ... 70 °C (device) / 5 ... 25 °C (electrode, short temperature peaks might be acceptable)
Connections:	BNC bayonet for electrode, 2 x 4 mm banana sockets for temperature, 3.5 mm stereo jack socket for interface/analog output
pH electrode:	GE 114 (standard electrode, included) combination electrode with gel electrolyte. Measuring range: 0-14 pH, temperature 0-60 °C, applicable for conductivities >200 µS/cm
Temperature probe:	GTF 55 B (Pt1000 temperature probe, included)
Input resistance:	approx. 10 ¹² Ohm
Display:	2 4-digit LCD displays (12.4 mm and 7 mm high)
Calibration:	Automatic 2-point calibration with GPH buffer capsules (included)
Power supply:	9 V battery, type IEC 6F22 (included), current consumption: < 1 mA (with Out = Off). Socket for external 10.5-12 V PSU (GNG 10/3000)
EMC:	The device corresponds to the essential protection ratings established in the Regulations of the Council for the Approximation of Legislation for the member countries regarding electromagnetic compatibility (2004/108/EG). additional error: <1 %
Housing:	119 x 69 x 33 mm, weight: approx. 210 g (incl. battery, temperature probe GTF 55 B and electrode GE 114)
Scope of supply:	measuring device, pH electrode GE 114, temperature probe GTF 55 B, buffer capsules GPH 4 and GPH 7 (5x of each type), 2 wide mouth bottles GPF 100, battery, manual