



DIGITAL-pH-METER

GPH 014

Device ready for use incl. pH-electrode type GE 014 and battery. (no buffer solutions)

Specification:

Measuring range (device): 0.00 up to 14.00 pH
Resolution: 0.01 pH

Accuracy (device) (at nominal temperature = 25°C):
 +/-0.02 pH +/- 1 digit

Input resistance: 10¹² Ohm

pH-electrode: combined measuring and reference electrode type GE 014 with refillable 3 mol-KCl electrolyte, 2-12 pH, 0 to 60° C

Calibration: 3 turning knobs for:

- temperature compensation 0 to 90° C
- pH7 value
- pH x-value (eg 4.0/10.0/12.0)

Working temperature: 0 to 45° C

Display: 3½-digit LCD display, 13mm high

Power supply: 9V battery type JEC 6F22 (incl.)

Low battery warning: automatic; "BAT" displayed in case of low voltage

Battery service life: approx. 200 operating h

Dimensions: approx. 106 x 67 x 30 mm (H x W x D). Impact resistant ABS housing.

Weight: approx. 200 g (incl. battery and electrode)

GAK 1400

Working and calibration set:

Working and calibration set consisting of 5 buffer capsules each **GPH4.0**, **GPH7.0** and **GPH10.0**, 3 x 100ml-plastic bottle **GPF100**, 1 x 3 mol KCL-electrolyte **KCL3M** and 1 x Pepsin-cleaning agent **GRL100**.

GAK1400 is required if no buffer solutions are existing at your works.

Accessories:

GE 014 Spare electrode

GPH 014 GL Loose device (without accessories)

GE 100 Better electrode 0-14pH, 0-80°C

GE 101 Injection electrode 2-11pH, 0-60°C

GE 106 pH-electrode for low-ion water (as of 25 µS/cm)

GKK 252 Case (235 x 185 x 48 mm) with foam lining

GKK 1100 Case (340 x 275 x 83 mm) with foam lining

GB 9 V Spare battery

for additional accessories p.r.t. p. 31 38

automatic temperature compensation



DIGITAL-pH-/mV-/Thermometer

GPRT 1400 AN

Device ready for use incl. pH-electrode GE100, buffer capsules pH4 and pH7, two 100ml-plastic bottles as well as temperature probe GTF1400AN. Battery/mains operation, analog output: 1mV/digit, ATC = Automatic Temperature-Compensation.

Specification:

Measuring range:

- Position 1 (pH): 0,00 ... 14,00 pH
- Position 2 (°C): -20,0 ... +110,0 °C
- Position 3 (mV): -1999 ... +1999 mV

Resolution: 0,01pH, 0,1°C or 1mV

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

- (pH): ± 0,02 pH ± 1 digit
- (°C): ± 0,5 °C ± 1 digit (range: -10 to 110°C)
- (mV): ± 0,2 % of m.v. ± 1 digit

Input resistance: 10¹² Ohm

pH-electrode: combined measuring and reference electrode type GE 014 with refillable 3 mol-KCl electrolyte 0-14pH, 0-80°C

Attention! The pH-electrode does not allow for redox-measurements! - Please order redox electrode GE105 separately, if required (p.r.t. p. 31)

Temperature probe (type: GTF1400AN): silicon temperature probe (KTY 11-6), electr. insulated in V4A-pipe, 5mm Ø, approx. 100mm length, approx. 1m silicone cable with 3.5mm Ø jack connector for connection to front-side socket.

Instrument is calibrated to included GTF1400AN. If probe is replaced a new calibration is necessary.

Calibration: 3 turning knobs for

- temperature compensation 0-90°C (automatically when probe is plugged in)
- pH7-value
- pHX-value (eg. 4.0, 10.0, 12.0)

Working temperature: 0 to 45° C

Display: 3½-digit LCD display, 13mm high

Analog output: 1mV / digit, connection via 3.5 mm Ø jack connector. (suitable jack connector included)

Power supply: 9V-battery type IEC 6F22 (incl.). Additional power supply connector socket 2,5mm Ø.

Low battery warning: automatic; "BAT" displayed in case of low voltage.

Battery service life: approx. 100 operating h

Dimensions: approx. 150 x 86 x 30 mm (H x W x D). Impact resistant ABS housing with integrated pop-up clip for table top or suspended use, electrode clipped on at the side

Weight: approx. 330 g (ready for use)

Accessories:

GPRT 1400 AN GL loose device

GTF 1400 AN spare temperature probe

for additional accessories p.r.t. p. 31, 38



Digital-Oxygen Meter

GOX 20

Device ready for use incl. oxygen probe and battery.

Specification:

Measuring range:

- Temperature: 0.0 ... 40.0 °C
- Oxygen: 0.0 ... 20.0 mg/l O₂

Resolution:

- Temperature: 0.1 °C
- Oxygen: 0.1 mg/l O₂

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

- Temperature: ±0.3°C (range 0-30°C)
- Oxygen: ±2% of m.v. ±0.2 mg/l

Electrode: active diaphragm type.

Electrode-Ø front: approx. 12mm, length: approx. 170mm, connecting cable approx. 2m permanently connected to device.

Response time: 95% in 10sec.,

depending on temperature.

Operation life: approx. 3 years or more

dependant on maintenance

Operation pressure: max. 3 bar

Temperature compensation: automatically via temperature sensor integrated in electrode

Calibration: simple quick-calibration in atmospheric air

Display: 3½-digit LCD display, 13mm high

Working temperature: 0 to 50° C

Relative humidity: 0 to 95%RH (non condensing)

Storage temperature: -5 to 70° C

Power supply: 9V-battery type IEC 6F22 (included).

Power consumption: max. 1 mA

Low battery warning: automatic; "BAT" displayed in case of low voltage

Dimensions: 106 x 67 x 30 mm, impact resistant ABS plastic housing

Weight: approx. 250 g (ready for use)

Scope of supply: device incl. electrode, GWOK01 and KOH electrolyte

Accessories:

GAS 3600 Working set (consisting of 3 spare diaphragm heads and 100ml KOH-electrolyte)

GWOK 01

Spare diaphragm head

KOH 100

Spare electrolyte KOH

GKK 252 case (235 x 185 x 48 mm) with foam lining

GKK 1100 case (340 x 275 x 83 mm) with foam lining

GB 9 V Spare battery

for additional accessories p.r.t. p. 38