



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:	10 ¹² 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 add. accessories p.r.t. p. 35, 60 - 62

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.

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:	10 ¹² Ohm
pH-electrode:	combined measuring and reference electrode type GE 100 with refillable 3 mol-KCl electrolyte 0-14 pH, 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. 37)
Temperature probe:	silicon temperature probe, electr. insulated in V4A-pipe, 6mm 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 probe. 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 (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 B	spare temperature probe

for add. accessories p.r.t. p. 35, 60 - 62