

PH105.1-2 HANDHELD PH METER

PH105.1 and PH105.2 are rugged, waterproof instruments with a large LCD display. They measure pH value and redox potential (ORP) in mV. Temperature by RTD100 or RTD1000 immersion, penetration or contact probes.

Calibration compensation configured on one, two or three points and the sequence mode is choosing from a list of 13 buffers. Temperature probes are equipped with a smart cable module for detection of factory calibration data. Calculation functions added: Max, Min or Average value; relative measurement REL, Auto-HOLD display and automatic turning off enabled or not. IP67 protection.



PH105.1 without datalogger function but with an RS232C serial port for real time transfer of acquired measurements. PH105.2 full version, with RS232C serial port plus datalogger function up to 34,000 pH and temperature reading, configurable by user menu, which can be transferred to a PC by multi-standard RS232C serial port or USB 2.0. Storing interval, printing, and baud rate can be configured by menu.

BUNDLE KIT

The instrument is provided in carrying case: instrument, 4x 1.5V alkaline batteries, operating manual, software. Option on order are: electrodes, temperature probe, calibration solutions, data transfer cable for PC or printer.

TECHNICAL SPECIFICATIONS

Measuring range:	-2.00...19.00 pH; -1999...+1999 mV; -200.0...+650°C (Pt100, Pt1000); -50...+250°C (Ni1000)
Calibration error @25°C	Offset >20 mV; Slope < 50 mV/pH or Slope >63 mV/pH; Sensibility <85% or >106,5%
Display:	2X41/2 digit + symbols, area sight 52x42 mm
Accuracy:	+/- 0,001 pH +/- 1 digit +/- 0,1 mV +/- 1 digit 0,1 °C
Input impedance:	>10 ¹² Ohm
Supply:	4x 1.5V AA batteries, 200 h w/1800mAh alkaline batteries, 20microA (with instrument Off)
Temperature:	working -5...+50°C; storage -25...+65°C
Working relative humidity:	0...90%RH, without condensation
Optional supply:	Input mains adapter 12Vdc /1000mA, stabilized power at 230Vac/12Vdc-1A mains voltage
Instrument dimensions:	Length x Width x Height 185x90x40 mm
Weight:	470g (with batteries)
Serial interface RS232C electrically isolated:	Configurable parameters: Baud rate 1200 ... 38400 baud; data bit 8; Parity none; stop bit 1; Flow control Xon/Xoff, serial cable length max 15m; Print interval 1s, 5s, 10s, 15s, 30s, 1min, 2min, 5min, 10min, 15min, 20min, 30min and 1h.
USB (PH105.2)	1.1 - 2.0 type electrically isolated
Connections:	plug module for the temperature probes 8-pole male DIN45326 connector pH/mV input connector Female BNC Serial interface and USB 8-pole MiniDin connector Mains adapter 2-pole connector (positive at centre)
Datalogger (PH105.2)	Type 2000 pages containing 17 samples each Total of 34000 samples Data acquisition interval 1s, 5s, 10s, 15s, 30s, 1min, 2min, 5min, 10min, 15min, 20min, 30min and 1h



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pH ELECTRODES				
model	temperature °C	Ref	Description	Applications
POLY2	0...60	Ag/AgCl, Gel, Body Epoxy	S7 screw connector Diameter 12 L = 130 mm.	General purpose, agriculture
POLY1	0...60	Ag/AgCl, Gel, Body Epoxy	1m cable with BNC Diameter 12 L = 130 mm.	General purpose, agriculture
POLYLAB	-10...+80	Ag/AgCl, Liquid, Body glass	Polymer porosity free S7 screw connector Diameter 12 L = 120 mm.	Milk, dairy, gelatin solutions. Industrial applications on immersion probe holder
KP61	0...100	Ag/AgCl, Liquid, Body glass	3 diaphragm liquid filled, S7 screw connector	Milk, dairy, gelatin solutions
KP62	0...100	Ag/AgCl, Liquid, Body glass	1 diaphragm gel, S7 screw connector	Pure water, varnishes
KP70	0...100	Ag/AgCl, Liquid, Body glass	Pointed gel combined, Microelectrode diam. 6 x L = 70 mm S7 screw connector	Laboratory version
KP80	0...100	Ag/AgCl, Liquid, Body glass	Pointed gel, S7 screw connector	Tip probe for food, meat, fish



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