

Portable Meters

Knick >

Portamess® 913 (X) pH



Portamess® 913 pH
Fit for digital communi-
cation. Pioneering.
Remote-controllable.

The keys

Smooth membrane keypad.
Durable. Easy to clean. No
sticking or crusty deposits.

The display

Large (15 mm character height).
Easy-to-read LC display. Antire-
flection natural glass. Scratch-
proof and resistant to chemicals.
Clear icons for operator guid-
ance. Sensoface®: Electrode
diagnostics with "Smileys".

The quiver

Integrated. Replaceable. Protects
the electrode. Transparent. Easy
to remove.

The enclosure

Blue. Ergonomic. Resistant to
impact and chemicals. Diecast
chassis. Water-tight (IP 66
protection).

The cover

Protects against dirt and damage.
Highly flexible lamellar joint.
Can be folded back completely.
Instructions on the back.

The hook

Fold-out. For hanging or stand-
ing up. Keeps both hands free for
handling the electrode.

The sockets

Robust. Water-tight. Gold-plated.

The carrying strap

Practical. Adjustable. Fixed
directly to the meter.

The clock

Integrated real-time clock.
With date.

The calibration

1-, 2-, and 3-point calibration.
Calimatic® automatically recog-
nizes the right buffer. 8 buffer
sets to choose from. Also manual
calibration possible. With any two
buffers.

The memory

Manual storage. Direct access
via 2 keys. 100 measured values
including temperature, memory
location number, time, and date.

The data logger

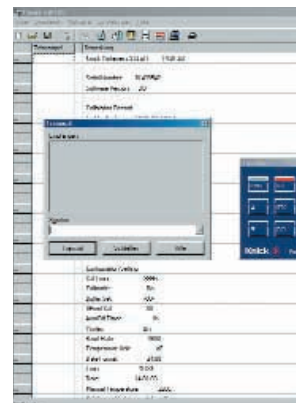
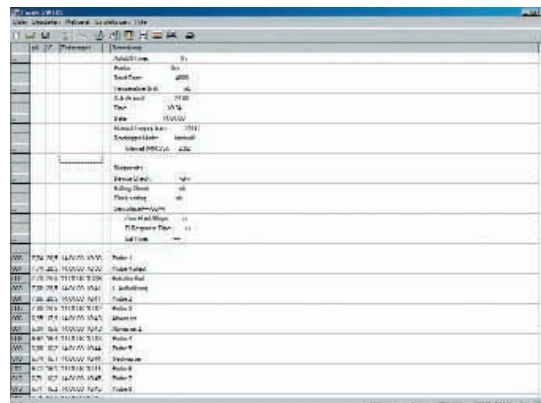
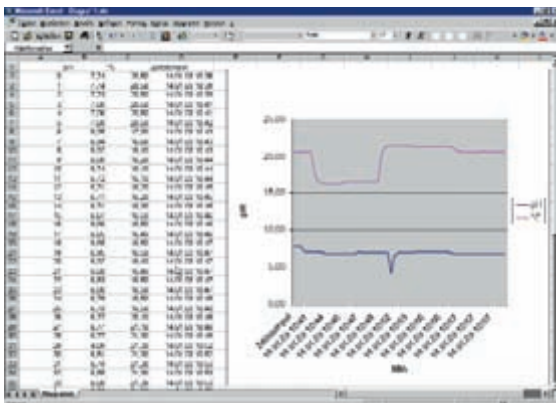
Unique. Automatic recording of
measured values over longer peri-
ods. Manual (with STO key), inter-
val (e. g. every 30 min.) or event-
controlled (based on a measured
value difference – this function
prevents unnecessary memory
consumption). Combined with a
PC, the meter can continuously
record any amount of data.

The interface

Serial. Either for prin-ter or PC
simply by turning plug around.
Saves paperwork, prevents manu-
al transcription errors. Supplies
records for QM documentation
(ISO 9000 and GLP). Portamess®
913 pH can be completely remote
controlled via interface.

The software

Convenient. Paraly® SW 109 tran-
fer software. Transfers measured
values to the PC. Comfortable
documentation and further pro-
cessing (e. g. with Microsoft Excel).
Data logger function. Remote
control of all device functions.



pH/ORP measurement

Isolation Amplifiers
Transmitters

Indicators

Process Analytics

Portable Meters

Laboratory Meters

Sensors

Fittings



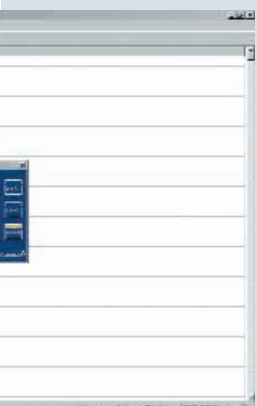
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Warranty
3 years!



Original size



Portable Meters

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■ Specifications

Portamess® 913 (X) pH

Ranges	pH: -2.00 ... +16.00; mV: -1300 ... +1300; °C: -20.0 ... +120.0
Accuracy (± 1 count)	pH: <0.01; mV: <0.1 % meas.val. ±0.3 mV; °C: <0.3 K
Electrode standardization	1-, 2-, or 3-point calibration, Calimatic® automatic calibration and buffer identification (German patent 29 37 227) 8 buffer sets to choose from*) see table, also manual calibration possible
Temperature compensation	Pt 1000 / NTC 30 kOhm (automatic recognition at power-on) or manual
EMC directive	89/336/EEC
EMC standard	EN 61326 / VDE 0843 Part 20: 2002-3
Explosion protection (for Ⓜ versions only)	II(2)G EEx ia IIC T4 ... T6 according to EC Directive 94 / 9 / EC, PTB 01 ATEX 2162 X
Device self-test	Automatic at power-on
Data retention	Parameters and calibration data >10 years (EEPROM)
Ambient conditions	Operating/ambient temp -10 ... +55 °C; Transport and storage temp -10 ... +70 °C
Display	LC display 67 x 67 mm, character height 15 mm; measured value display: pH, mV, °C
Power supply	3 alkaline AA batteries, autom. switch-off after 1 h or 12 h, selectable
Operating time	2000 h with 3 AA cells
Enclosure	Material: PA, IP 66 protected, with integrated electrode quiver
Dimensions	133 x 160 x 30 mm (W x H x D)
Weight	Approx. 560 g including batteries
Data memory	100 memory locations: pH/mV, °C, time and date
Clock	Integrated real-time clock with date
Data logger*)	100 data records, manual, interval, or event-controlled recording
Interface	RS 232C, serial, bidirectional, asynchronous, 600 ... 9600 bauds, configurable as printer or computer interface, data transfer for QM documentation (ISO 9000 and GLP).
Interface cable	Length 2 m, universal plug, either for PC or printer connection
Software	SW 109 transfer software: Recording of measurement data, memory contents and device records in tabular form, allows entering notes for each measured value (e. g. tag number), data transfer to other Windows applications (e. g. Excel), data-logger function, remote control of all device functions, included in supply. Control of Model 913 pH is integrated in the automation software for lab meters "labworldsoft" (Fisher Scientific) for display and control of device functions of Version 4.0 or higher.

*) Configurable