

# Portable Meters

**Knick** >

## Portamess® 911 (X) pH



**Portamess® 911 pH**  
**The basic unit for mobile pH measurement. Uncomplicated. Completely safe.**

### 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. Anti-reflection natural glass. Scratch-proof and resistant to chemicals. Clear icons for operator guidance. 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 standing 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 calibration

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



# pH/ORP measurement

Isolation Amplifiers  
Transmitters

Indicators

Process Analytics

Portable Meters

Laboratory Meters

Sensors

Fittings



**Knick** >



Warranty  
**3 years!**



Original size

## Portamess® 911 (X) pH



### ■ Specifications

#### Portamess® 911 (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)	II2(1)G EEx ia IIC T4 ... T6 according to EC Directive 94 / 9 / EC, PTB 01 ATEX 2162 X
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

\*) Configurable

#### Buffer sets

Buffer set – 00 –	Knick technical buffers: pH 2.00/4.01/7.00/9.21
Buffer set – 01 –	Mettler-Toledo (Ingold) technical buffers: pH 2.00/4.01/7.00/9.21
Buffer set – 02 –	Merck, Riedel: pH 2.00/4.00/7.00/9.00/12.00
Buffer set – 03 –	DIN 19 267: pH 1.09/4.65/6.79/9.23/12.75
Buffer set – 04 –	Ciba (94): pH 2.06/4.00/7.00/10.00
Buffer set – 05 –	NIST: pH 1.68/4.00/7.00/10.01/12.46
Buffer set – 06 –	DIN 19 266 and NIST (NBS): pH 1.679/4.006/6.865/9.180
Buffer set – 07 –	HACH: pH 4.00/7.00/10.18