



## 913 pH Meter, laboratory version

2.913.0210

Portable two-channel pH measuring instrument for measuring pH/mV and temperature. You will be optimally equipped for measurements in the field and in the laboratory with this battery-operated measuring instrument with a stand plate.

- Portable pH meter with built-in battery pack and two galvanically isolated pH measuring inputs.
- Analog pH measuring input for Metrohm standard pH electrodes
- Digital pH measuring input for the intelligent pH electrodes from Metrohm
- Robust, water-tight, and dust-tight housing (IP67) for tough outdoor and laboratory use
- LCD color display with background illumination making results easy to read
- USB interface for simple data export to PC or printer
- Large internal memory (10,000 data sets)
- Pin-protected User mode and Expert mode, prevents unwanted parameter changes
- GLP-compliant printout and data export with User ID and timestamp

Below, the accessories are grouped into Scope of delivery and Optional accessories.  
Please keep this printout at hand for ordering replacement material.  
These lists may be subject to change.

## Scope of delivery 2.913.0210

| Qt.   | Order no.  | Description  |
|-------|------------|--|
| 1 PCS | 1.913.0010 | 913 pH Meter   |
|       |            | <p>pH/mV and temperature measurement for routine use in the laboratory and on the road.</p> <p>pH or mV and temperature can be measured in parallel with one analog and one intelligent sensor and output to a large colour display. Important information such as charge state, user, IDs can be clearly seen at a glance. A PIN-protected expert mode protects against unintentional changes of different parameters.</p> <p>The meter is furnished with an accumulator for mobile use that can be charged practically anywhere. It naturally also satisfies the requirements of IP67.</p> <p>A stand plate allows the mobile meter to be easily converted into a laboratory meter and vice versa.</p> <p>Very large measured value memory (10,000 data sets) and USB interface (GLP-compliant printout or data export with optional management of the data in tiBase) offer professional data handling.</p> |
| 1 PCS | 6.2001.130 | Stand plate for 912/913/914  |
|       |            | <p>Stand plate for converting a mobile 912/913/914 pH/Conductometer into a laboratory meter.</p>   |
| 1 PCS | 6.2008.060 | Holder for electrode storage vessel  |
|       |            | <p>Practical holder for fastening the electrode storage vessels to the 912, 913 or 914 pH/Conductometers.</p>  |





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| 1 PCS | 6.2050.010 | Carrying strap for 912/913/914 |
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Carrying strap for 912/913/914 meters



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| 1 PCS | 6.2151.100 | Adapter USB MINI (OTG) - USB A |
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For connecting USB instruments.



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| 1 PCS | 6.2151.110 | Metrohm USB Mini B cable (OTG) - USB A, 1.8 m |
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For connecting USB instruments.



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| 1 PCS | 6.2166.100 | USB power supply unit 5.25 V / 1.53 A |
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USB power supply unit for 912 / 913 / 914

Efficiency Level VI





## Optional accessories

| Order no.   | Description   |
|-------------|---|
| 2.142.0100  | <p>Custom Q3X thermal printer</p> <p>Compact printer with USB interface for</p> <ul style="list-style-type: none"><li>• 900 Touch Control</li><li>• 915 KF Ti-Touch</li><li>• 916 Ti-Touch</li><li>• 917 Coulometer</li><li>• 877 / 848 Titrino plus</li><li>• 865 / 876 Dosimat plus</li><li>• 91X Meter (cable 6.2151.140)</li><li>• Eco Dosimat / Titrator</li><li>• 862 Compact Titrosampler</li><li>• 870 KF Titrino plus</li><li>• 899 Coulometer</li></ul> <p>Paper width 60 mm (40 characters). Including 6.2151.120 USB cable.</p> |
| 2.854.0010  | <p>854 iConnect</p> <p>The 854 iConnect – Electrode cable and measuring amplifier for intelligent "iTrodes" electrodes (cable length 150 cm).</p>   |
| 6.00226.600 | <p>Spearhead electrode with Pt1000</p> <p>Maintenance-free combined pH electrode (gel electrolyte) for piercing measurements of all types (e.g., with cheese, meat, dough) with integrated Pt1000 temperature sensor. The electrode is stored in saturated potassium chloride solution <math>c(\text{KCl}) = \text{sat.}</math> (6.2308.000) and is not suitable for low-ion solutions. The ageing indicator gives early indication of when the electrode needs to be replaced.</p>   |
| 6.0224.100  | <p>Biotrode</p>   |



Combined pH electrode for measurements in very small sample volumes (>50 µL) and biological samples.

Idrolyte (6.2308.040) is used as reference electrolyte and storage solution.

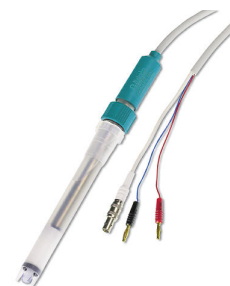


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6.0228.000 Solitrode with Pt1000 (fixed cable 1.2 m)

Combined pH electrode with integrated Pt1000 temperature sensor and fixed cable (1.2 m). This electrode is suitable for routine pH measurements in solutions that do not contain precipitates, proteins, or sulfides. This electrode is mechanically resistant thanks to the robust /unbreakable plastic shaft made of polypropylene and impact protection for the glass membrane.

Reference electrolyte:  $c(\text{KCl}) = 3 \text{ mol/L}$ , storage in storage solution.



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6.0228.030 Solitrode with Pt1000 (IP67, fixed cable 1.2 m)

Combined pH electrode with integrated temperature sensor (Pt1000) and fixed cable conforming to IP67 (1.2 m).

This electrode is suitable for an introduction to GLP-compliant pH measurements in solutions that do not contain precipitates, proteins, or sulfides. This electrode is mechanically resistant thanks to the robust /unbreakable plastic shaft made of polypropylene and impact protection for the glass membrane.

Additionally, this electrode offers a waterproof plug in accordance with IP67 for mobile use with Metrohm pH meters.

Reference electrolyte:  $c(\text{KCl}) = 3 \text{ mol/L}$ , storage in storage solution.



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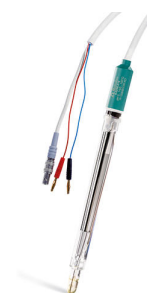
6.0258.010 Unitrode with Pt1000 (fixed cable 1.2 m, 2 mm)

Combined pH electrode with integrated Pt1000 temperature sensor and fixed cable (1.2 m, diameter banana plug 2 mm). This electrode is particularly suitable

- for pH measurements and titrations in difficult, viscous, or alkaline samples
- at elevated temperatures
- for long-term measurements

The fixed ground-joint diaphragm is insensitive to contamination.

Reference electrolyte:  $c(\text{KCl}) = 3 \text{ mol/L}$ , storage in storage solution.



Alternatively: reference electrolyte for measurements at  $T > 80^{\circ}\text{C}$ : Idrolyte, storage in Idrolyte.

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6.0278.300 iUnitrode with Pt1000

Intelligent, combined pH electrode with integrated memory chip for storing sensor data and Pt1000 temperature sensor. This electrode is particularly suitable:

- for pH measurements and titrations in difficult, viscous, or alkaline samples
- at elevated temperatures
- for long-term measurements



The fixed ground-joint diaphragm is insensitive to contamination.

Reference electrolyte:  $c(\text{KCl}) = 3 \text{ mol/L}$ , storage in storage solution.

Alternatively: reference electrolyte for measurements at  $T > 80^{\circ}\text{C}$ : Idrolyte, storage in Idrolyte.

iTrodes can be connected to Titrando, Ti-Touch or 913/914 meters.

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6.2104.600 Electrode cable for plug in head U/plug F, 2x2 mm B, 1m

For connecting electrodes with Metrohm plug-in head U to Metrohm instruments (socket F).



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6.2151.140 Y cable USB A St - USB B St - Mini B St

Y cable for connection of a USB printer to the pH/Conductometers 912 / 913 / 914. This cable allows a printer and the power supply unit to be connected to the measuring instrument at the same time.



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6.2166.500 12 V USB adapter for 912 / 913 / 914 pH/Conductometer

12 V USB adapter for 912 / 913 / 914 pH/Conductometer.



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6.2307.230

Buffer solutions pH 4, 7 and 9

Mixed buffer solutions pH 4.00/7.00/9.00 (25 °C) in single use sachets, colourless, box of 3 x 10 x 30 mL



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6.2313.000

Electrolyte 3 mol/L KCl (1000 mL)

Electrolyte solution  $c(\text{KCl}) = 3 \text{ mol/L}$  (for Ag/AgCl reference systems)



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6.2325.000

pHit kit

Maintenance kit for pH electrodes

The kit contains:

- 50 mL cleaning solution
- 50 mL 3M KCl solution
- 50 mL storage solution
- 2 Storage vessels
- Instructions for use

