



913 pH/DO Meter avec coffret d'accessoires

2.913.0120

Appareil de mesure bicanal portable pour mesurer le pH / la tension en mV et l'oxygène dissous. Cet ensemble comporte tout le nécessaire pour commencer sans délai : appareil de mesure, capteurs, solutions de calibrage, le tout rangé dans une mallette de transport robuste.

- Appareil de mesure portable avec jeu de batteries incorporé et deux entrées de mesure isolées électriquement.
- Entrée de mesure du pH analogique pour des électrodes pH standard
- Entrée de mesure numérique pour les électrodes pH intelligentes ou l'électrode O2-Lumitrode
- Boîtier robuste, étanche à l'eau et à la poussière (IP67), idéal pour une utilisation dans des conditions difficiles en extérieur et en laboratoire
- Écran d'affichage couleur à LCD rétro-éclairé pour une lecture facile des résultats
- Interface USB pour une exportation aisée des données sur ordinateur ou imprimante
- Mémoire interne de grande capacité (10 000 blocs de données)
- Modes utilisateur et expert protégés par PIN afin d'éviter toute modification accidentelle des paramètres
- Impression et exportation des données conformes aux BPL avec ID utilisateur et horodatage
- Mallette de transport robuste pour les mesures de routine sur le terrain

Contenu de la livraison 2.913.0120

Qt.	Order no.	Description
1 PCS	1.913.0020	pH/DO Meter

The 913 pH/DO Meter offers two measuring inputs for determining the pH value and dissolved oxygen in water.

- Portable meter with built-in battery pack and two galvanically isolated measuring inputs.
- Analog pH measuring input for standard pH electrodes
- Digital measuring input for O₂ measurement using O₂ Lumitrode or intelligent pH electrodes
- 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



1 PCS	6.0228.030	Solitrode with Pt1000 (IP67, fixed cable 1.2 m)
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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(KCl) = 3 mol/L, storage in storage solution.



1 PCS

6.1116.000

O2 Lumitrode

The optical sensor for measuring dissolved oxygen (DO) can be used with a 913 pH/DO meter or with a 914 pH/DO conductometer. The measuring principle of the sensor is based on luminescence quenching. The space-saving and maintenance-free sensor is suitable for DO measurement, for example in:

- Water quality control
- Wastewater industry
- Beverage production
- Fish farming

This sensor is supplied with a calibration vessel.

Where necessary, it is easy to replace the measurement cap (O₂ cap) that contains the oxygen-intensive luminophore.



2 PCS

6.1446.000

SGJ stopper / B-14/(15)



2 PCS

6.1613.010

Bottle / 25 mL



1 PCS

6.1613.020

Bottle / 25 mL / label pH 7 (empty)



1 PCS

6.1613.030

Bottle / 25 mL / label pH 4 (empty)



1 PCS

6.1614.000

Wash bottle / 250 mL



1 PCS

6.2008.060

Holder for electrode storage vessel

Practical holder for fastening the electrode storage vessels to the 912, 913 or 914 pH/Conductometers.



1 PCS

6.2050.010

Carrying strap for 912/913/914

Carrying strap for 912/913/914 meters



1 PCS

6.2151.100

Adapter USB MINI (OTG) - USB A

For connecting USB instruments.



1 PCS

6.2151.110

Metrohm USB Mini B cable (OTG) - USB A, 1.8 m

For connecting USB instruments.



1 PCS

6.2166.100

USB power supply unit 5.25 V / 1.53 A

USB power supply unit for 912 / 913 / 914

Efficiency Level VI



1 PCS

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



1 PCS

6.2308.050

Electrolyte 3 mol/L KCl (50 mL)

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



1 PCS

6.2716.060

Case for 912 / 913 / 914

Case for the 912 / 913 / 914 pH/Conductometers.



1 PCS

6.2717.000

PP beaker, 100 mL

Beaker made of PP, 100 mL.



Accessoires optionnels

Order no.	Description
2.142.0100	Custom Q3X thermal printer Compact printer with USB interface for • 900 Touch Control • 915 KF Ti-Touch • 916 Ti-Touch • 917 Coulometer • 877 / 848 Titrino plus • 865 / 876 Dosimat plus • 91X Meter (cable 6.2151.140) • Eco Dosimat / Titrator • 862 Compact Titrosampler • 870 KF Titrino plus • 899 Coulometer Paper width 60 mm (40 characters). Including 6.2151.120 USB cable.
2.854.0010	854 iConnect The 854 iConnect – Electrode cable and measuring amplifier for intelligent "iTrodes" electrodes (cable length 150 cm).
6.00226.600	Spearhead electrode with Pt1000 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 $c(\text{KCl}) = \text{sat.}$ (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.



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.



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.



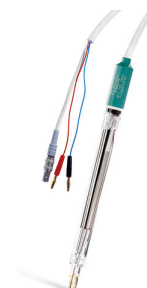
Combined pH electrode with integrated Pt1000 temperature sensor and fixed cable (1.2 m, diameter banana plug 2 mm). This electrode is particularly suitable

- 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.



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.

6.2001.130

Stand plate for 912/913/914

Stand plate for converting a mobile 912/913/914 pH/Conductometer into a laboratory meter.



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).



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.



6.2166.500

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

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



6.2313.000

Electrolyte 3 mol/L KCl (1000 mL)

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



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



6.2329.000 Oxygen standard 0%

Oxygen standard for 0% calibration of the O₂-Lumitrode. Contains 5 sachets of 30 mL each.



6.5623.000 O2 Lumitrode replacement set

Replacement set for the O₂ Lumitrode. The set contains a certified O₂ cap as replacement, a calibration vessel, and 5 x 30 mL oxygen standard, 0%.

