



949 pH Meter mit Solitrode

2.949.0220

Das 949 pH Meter ist das perfekte Tisch-pH-Meter für schnelle und präzise pH-Messungen. Ideal für Labore, Forschungseinrichtungen und industrielle Umgebungen, die regelmäßige pH-Analysen durchführen.

- Kompaktes Tisch-pH-Messgerät mit farbigem Display
- Misst pH, mV und ORP mit Temperaturanzeige für umfassende Analysen
- Einfache pH-Kalibrierung mit Metrohm-, USA- und NIST-Puffern bis zu 3 Punkten oder durch benutzerdefinierte 2-Punkt-Kalibrierung
- Anzeige der kalibrierten Werte mit Symbolen für eine klare Lesbarkeit
- Signalisiert Messstabilität und bietet die Möglichkeit zur Auswahl aus 3 Stabilitätskriterien für zuverlässige Resultaten
- GLP-konform mit eingebettetem Datum und Uhrzeit
- Anzeige von Kalibrierdaten und Einstellung der Kalibrierfrist
- Solitrode mit stabilem Kunststoffschaft für langlebige Nutzung

Im Paket enthalten sind das 949 pH Meter, der Elektrodenhalter, das Netzteil sowie die Solitrode mit Pt1000 mit Fixkabel für eine einfache und sofortige Nutzung.

Lieferumfang 2.949.0220

Qt.	Order no.	Beschreibung
1 PCS	1.949.0210	949 pH Meter with electrode holder and power supply unit



1 PCS	6.0228.000	Solitrade with Pt1000 (fixed cable 1.2 m)
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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.



1 PCS	6.2001.140	Electrode holder with stand base
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Electrode holder for 949 pH Meter



1 PCS	6.2166.200	Power supply unit for 949 pH Meter
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Tabletop power supply unit, 100–240 V, 50–60 Hz, 5 V DC, for 949 pH Meter

Efficiency Level VI



Optionales Zubehör

Order no.	Beschreibung
2.143.0200	TX-900MH impact printer Compact impact printer with USB and RS232 interface for • 900 Touch Control (+) • 915 KF Ti-Touch (+) • 916 Ti-Touch (+) • 917 Coulometer (+) • 91X Meter (+) • Eco Dosimat/Titrator (+) • 877/848 Titrino plus (additional 6.2151.100 required) • 865/876 Dosimat plus (additional 6.2151.100 required) • 862 Compact Titrosampler (additional 6.2151.100 required) • 870 KF Titrino plus (additional 6.2151.100 required) • 899 Coulometer (additional 6.2151.100 required) (+) Cable included in scope of delivery
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.
6.0224.100	Biotrode Combined pH electrode for measurements in very small sample volumes ($>50 \text{ uL}$) and biological samples. Idrolyte (6.2308.040) is used as reference electrolyte and storage solution.



Combined pH electrode for pH measurement / titration of:

- viscous samples (e.g., nutrient solutions, emulsions)
- protein- or sulfide-containing media

The flexible ground-joint diaphragm is insensitive to contamination and easy to clean.

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



This combined pH electrode is well suited for:

- pH measurements on surfaces, such as paper, textiles, leather
- pH measurement/titration in small sample volumes (min. immersion depth = 1 mm)
- pH measurement/titration of aqueous suspension

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



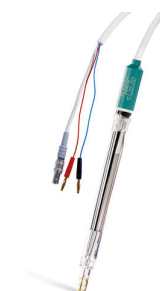
Combined pH electrode with integrated Pt1000 temperature sensor and fixed cable (1.2 m, diameter banana plug 2 mm). This electrode is particularly suitable

- 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.



Combined pH electrode with integrated Pt1000 temperature sensor for pH measurements/titrations. 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.

6.0451.100

Combined Pt ring electrode

Combined platinum ring electrode with a ceramic pin diaphragm.

This electrode is well suited for redox titrations when the pH value varies, e.g.:

- oxygen content according to Winkler
- determination of hydrogen peroxide with KMnO_4
- diazotization titrations



$c(\text{KCl}) = 3 \text{ mol/L}$ is used as reference electrolyte and storage solution.

6.1110.100

Pt1000 temperature sensor (installation length 12.5 cm)

Pt1000 temperature sensor (class B) made of glass.

This PT1000 temperature sensor is also available under the article number 6.1110.110 with an installation length of 17.8 cm.



6.2104.020

Electrode cable / 1 m / F

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



6.2104.140

Electrode cable / 1 m / 2 x 2 mm

For connecting temperature sensors with Metrohm plug-in head G with 780, 781, 826, 827 pH/Ion meters and all Titrandos



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).



6.2306.020

Redox standard 250 mV (250 mL)

Redox standard (with Ag/AgCl/c(KCl)=3 mol/L reference electrode gives $U = 250 \pm 5$ mV (20° C); can also be used as buffer pH=7)



6.2307.100 Buffer solution pH 4 (500 mL)
Ready-to-use buffer solution pH = 4 (25 °C), colored, with closure seal



6.2307.110 Buffer solution pH 7 (500 mL)
Ready-to-use buffer solution pH = 7 (25 °C), colored, with closure seal



6.2307.120 Buffer solution pH 9 (500 mL)
Ready-to-use buffer solution pH = 9 (25 °C), colorless, with closure seal



6.2307.200 Buffer solution pH 4.00 (30 x 30 mL)
Buffer solution pH 4.00 (25 °C) in single use sachets, colorless



6.2307.210 Buffer solution pH 7.00 (30 x 30 mL)
Buffer solution pH 7.00 (25 °C) in single use sachets, colorless



6.2307.220 Buffer solution pH 9.00 (30 x 30 mL)
Buffer solution pH 9.00 (25 °C) in single use sachets, colorless



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

