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pH Composite Electrode

General-purpose pH composite electrode with Ag/AgCl reference, glass body and BNC(Q9) connector

SKU PRO6140 · PH 0–14 · 5–60 °C · Φ12×120 MM

PRO6140 pH Composite Electrode is a general-purpose laboratory pH electrode for routine pH measurement in aqueous samples. The electrode combines the pH indicator and reference electrode in one glass-body probe, using a stable Ag/AgCl reference system, single ceramic junction, 3 M KCl fill solution and standard BNC(Q9) connection for direct compatibility with most laboratory pH meters.

PH COMPOSITE ELECTRODE | AG/AGCL REFERENCE | PH 0–14 | GLASS BODY | SINGLE CERAMIC JUNCTION | 3 M KCL | 5–60 °C | Φ12×120 MM | BNC(Q9)

Document type: **Technical Specification Sheet**
Product family: **Electrochemistry Accessories / pH Electrodes**
Product: **pH Composite Electrode Ag/AgCl · Φ12×120 mm** · SKU: **PRO6140**
Product page: **colo.si/product/ph-composite-electrode-3/**
Related category: **colo.si/products/electrochemical-instruments/**
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PRO6140 · pH composite electrode · Ag/AgCl reference · glass body

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PRO6140
pH electrode

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General-purpose pH composite electrode with Ag/AgCl reference, glass body and BNC(Q9) connector

Technical specification · SKU PRO6140 · pH 0–14 · 5–60 °C · Φ12×120 mm

PH RANGE 0–14 | WORKING TEMP. 5–60 °C | 3 M KCL | SINGLE CERAMIC JUNCTION | BNC(Q9) — Routine laboratory electrode for pH measurement in aqueous samples

Product Overview

Application profile

Routine pH measurement: everyday pH measurement in aqueous samples and QC workflows.
Education and training: clear composite-electrode format for pH measurement and calibration practice.
Industrial and research labs: general-purpose electrode for sample checks and laboratory control.
Meter compatibility: BNC(Q9) connector for compatible pH meters with BNC input.

Design and handling advantage

Composite design: pH indicator and reference electrode integrated in one body.
Glass body: robust body for standard laboratory liquids and careful bench handling.
Stable reference: Ag/AgCl reference and 3 M KCl fill support reproducible measurement.
Standard geometry: Φ12×120 mm format fits common glassware and electrode holders.

Key features

pH range: 0–14 pH for routine aqueous sample measurement.
Temperature range: 5–60 °C working temperature.
Reference system: Ag/AgCl with 3 M KCl fill solution.
Junction: single ceramic junction for stable electrolyte contact.
Connection: BNC(Q9) connector for compatible pH meters.
Physical format: Φ12×120 mm glass body.

Core technical summary

Parameter	Specification
SKU	PRO6140
Product name	pH Composite Electrode Ag/AgCl · Φ12×120 mm
Electrode type	Composite pH electrode
pH range	0–14
Sensor material	Glass
Reference type	Ag/AgCl
Junction material	Single ceramic
Fill solution	3 M KCl
Working temperature	5–60 °C
Connector	BNC(Q9)
Dimensions	Φ12×120 mm

Technical Specifications

Electrode construction and materials

Parameter	Specification
SKU	PRO6140
Name	pH composite electrode
Electrode category	Composite pH electrode combining pH indicator and reference electrode.
Sensor material	Glass.
Reference type	Ag/AgCl reference system.
Junction material	Single ceramic junction.
Fill solution	3 M KCl.
Body dimensions	Φ12×120 mm.
Body format	Standard laboratory electrode body for common glassware and electrode holders.
Connector type	BNC(Q9).
Main product image	Open PRO6140 electrode image
Connector reference image	Open connector image

Measurement and operating profile

Function	Technical note
pH range	0–14 pH.
Working temperature	5–60 °C.
Recommended sample type	Routine aqueous laboratory samples.
Typical use	Routine pH measurement, calibration practice, laboratory QC and general electrochemistry workflows.
Temperature note	This is not a 3-in-1 pH electrode with integrated temperature probe. Use meter temperature compensation according to the selected meter and method.

Connector, compatibility and ordering notes

Parameter	Specification / note
Primary connector	BNC(Q9).
Direct compatibility	Compatible with pH meters that accept standard BNC pH electrode input.
S7 meter input	For meters with S7 input, use an S7–BNC(Q9) cable if required by the meter configuration.
Compatibility check	Always confirm meter input type, electrode connector and measurement method before purchase.
Product page	Open PRO6140 product page
Electrochemistry category	Open electrochemical instruments page
Quotation path	Request official quotation

Specification note

Electrode selection: final selection should match the sample matrix, required pH range, operating temperature and meter connector.

Calibration: use fresh pH buffers and follow the pH meter calibration procedure before routine measurement.

Storage: keep the pH glass membrane hydrated and follow the electrode storage instructions supplied with the electrode or meter.

Connector: BNC(Q9) is the electrode signal connector. Temperature measurement requires a separate temperature probe unless using a 3-in-1 electrode.

Technical values are provided for product selection and orientation. Final delivered configuration, connector cable, accessory set and documentation should be confirmed through the official COLO.Science quotation or manufacturer-confirmed offer.

Visual Reference, Connector and Compatibility Support

PRO6140 · glass-body pH composite electrode · Ag/AgCl reference

Connector reference

Electrode body · Φ12×120 mm · general-purpose pH electrode

Connector reference · BNC(Q9) / cable compatibility check

Practical compatibility checklist

Meter input: confirm that the pH meter has BNC input or the correct adapter cable.

Sample matrix: use this electrode for routine aqueous samples; verify suitability for aggressive, non-aqueous or high-temperature samples.

Temperature: for automatic temperature compensation, pair the meter with a compatible temperature probe or select a 3-in-1 electrode model.

Consumables: prepare fresh pH buffers, electrode storage solution and cleaning routine for stable results.

Navigation note — this specification is linked back to COLO.Science

This technical specification contains direct links to the PRO6140 product page, quotation request page, COLO.Science home page and electrochemical instruments page. If a user opens this document directly from Google or on a mobile device, the page remains connected to the main website and quotation path.

Selection and Use Notes

For routine pH measurement

Calibration: calibrate with suitable pH buffers before measurement.

Hydration: keep the glass membrane hydrated for stable response.

For connector matching

BNC(Q9): direct connection to compatible pH meters.

S7 input: use adapter cable if the meter requires S7 connection.

For electrode care

Storage: avoid dry storage of the pH glass membrane.

Cleaning: clean according to sample contamination and laboratory procedure.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the pH meter model, connector type, sample matrix, operating temperature and required electrode format. COLO.Science can help confirm whether PRO6140 is the correct electrode or whether a special-purpose / 3-in-1 electrode is required.

QUICK CONTACT

- colo.si
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- PRO6140 product page
- Electrochemical instruments

COLO.SCIENCE · PRO6140 PH COMPOSITE ELECTRODE SUPPORT

Need help confirming the correct pH electrode and connector?

Send the meter model, connector type, sample matrix, required pH range and whether temperature compensation is needed. COLO.Science can help confirm the correct electrode configuration for routine laboratory pH measurement or recommend a compatible alternative.

Open product page | Request a quote | Electrochemical instruments | COLO.Science home

Product page: **PRO6140 pH Composite Electrode** · Related page: **Electrochemical Instruments**