

PRO6148 • RoHS pH Composite Electrode, Lead-Free Glass

Lead-free glass • RoHS compliant • long-life reference • ceramic junction • S7

PH 0–14 0–80 °C REFILLABLE CERAMIC JUNCTION $\Phi 12 \times 120$ MM S7 – BNC (Q9)



PRO6148 is a general-purpose RoHS pH composite electrode made of lead-free glass, for laboratories that must document lead-free equipment. It has a refillable long-life reference, a ceramic junction and an S7 head; an S7-BNC cable connects it to the meter.

How it is built



PH SENSOR Spherical bulb

General-purpose glass membrane for common solutions.



BODY Lead-free glass

Easy to clean, suitable for organic solutions. Breakable.



JUNCTION Ceramic

Good permeability, stable potential.



CONNECTOR S7 – BNC (Q9)

S7 head on the electrode; S7-BNC cable to the meter.

RANGE
pH 0 – 14

TEMPERATURE
0 – 80 °C

MAINTENANCE
Refillable, 3 M KCl

BEST FOR
RoHS-compliant
laboratories

Why choose it

Lead-free and RoHS compliant: the glass contains no lead.

Stable for longer: the long-life reference keeps a steady potential over a longer service time and a wider temperature range than a plain Ag/AgCl reference.

Benchtop and portable: the same electrode works on any meter with a BNC input.

Use and storage

Measuring: open the refill hole; keep the electrolyte level above the sample level; rinse the tip between samples and blot, do not rub.

Storing: never dry and not in distilled water — keep the tip in the cap filled with 3 M KCl and close the refill hole.

Slow or drifting reading: soak the tip in storage solution, top up 3 M KCl, use fresh buffers, calibrate again.

PRO6148 • lead-free glass body, spherical bulb, S7 head

PRO6148 PRODUCT PAGE

ELECTROCHEMISTRY — OVERVIEW

ELECTRODE CATALOGUE

REQUEST QUOTE

Technical parameters

Parameter	Specification
Model / order code	PRO6148
Electrode type	pH composite (combination) electrode
Measuring range	pH 0 – 14
Working temperature	0 – 80 °C
pH sensor	Hemispherical glass bulb
Body material	Glass (lead-free glass)
Reference system	Long-life reference
Junction	Ceramic
Fill solution	3 M KCl
Temperature sensor	None
Dimensions	Φ12 × 120 mm
Connector	S7 – BNC (Q9)
Compliance	RoHS — lead-free glass

Temperature compensation: no built-in temperature sensor; use the meter's separate temperature probe or manual compensation.

Accessories



Electrode holder

Keeps the electrode at a fixed height and protects the glass.



pH buffers

pH 4.01, 7.00 and 10.01 — in bottles for daily calibration, in sachets for field work.



S7-BNC (Q9) cable

Connects the S7 head to the BNC input of the meter.

Is this the right electrode?

General use: spherical glass bulb for common aqueous solutions.

Above 80 °C: use the high-temperature electrode (to 120 °C).

Pure or low-conductivity water: use a low-conductivity or ultrapure-water electrode.

Emulsions, suspensions: use a cleanable or open-junction electrode.

One sensor instead of two: use the 3-in-1 electrode with a built-in temperature sensor (ATC).

Ordering data

Order code: PRO6148

Connector: S7 – BNC (Q9) — check the meter input before ordering.

Consumables: 3 M KCl solution for refilling and storage.

Preparing the electrode

- Remove the protective cap from the sensor bulb at the bottom of the electrode and rinse the tip with distilled water; blot the drops, do not rub.
- Check the electrolyte level; if it is low, top up with 3 M KCl solution.
- Leave the refill hole open during calibration and measurement.

Calibration in five steps

- Prepare fresh buffers at the same temperature as the samples and start the calibration on the meter.
- Immerse the tip in the first buffer, pH 7.00; wait for a stable reading and confirm the point.
- Rinse the tip with distilled water and blot the drops.
- Immerse the tip in the second buffer (pH 4.01 for acidic samples, pH 10.01 for alkaline); wait for a stable reading and confirm the point.
- The meter shows the electrode slope. If it is outside the limits given in the meter manual, clean the electrode, take fresh buffers and repeat the calibration.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

QUICK CONTACT



COLO.SCIENCE • ELECTRODE SELECTION SUPPORT

Not sure this is the right electrode for your sample?

Send us the meter model, sample type, pH range and temperature — we will confirm the electrode or propose a better match from the catalogue.

Technical values are given for product selection. The configuration confirmed in the COLO.Science quotation is binding for delivery.

[PRO6148 PRODUCT PAGE](#)
[ELECTROCHEMISTRY — OVERVIEW](#)
[ELECTRODE CATALOGUE](#)
[REQUEST QUOTE](#)