

PRO6142 • Low-Maintenance pH Composite Electrode

Non-refillable • long-life reference • open junction • polycarbonate body • BNC

PH 0–14 0–80 °C NO REFILLING OPEN JUNCTION $\Phi 12 \times 120$ MM BNC (Q9)



PRO6142 is a combination pH electrode for laboratories that want reliable routine measurement without electrolyte care. The reference system is sealed, so there is nothing to refill, and the open junction resists blocking in emulsions, suspensions and protein-containing samples.

How it is built



PH SENSOR Spherical bulb

General-purpose glass membrane for common solutions.



BODY Polycarbonate

Unbreakable shaft for daily handling. Not for organic solvents.



JUNCTION Open

Easy to clean, resistant to blocking.



CONNECTOR BNC (Q9)

Fits pH meters with a BNC electrode input.

RANGE
pH 0 – 14

TEMPERATURE
0 – 80 °C

MAINTENANCE
No refilling

BEST FOR
Emulsions, suspensions

Why choose it

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.

Nothing to refill: sealed reference — rinse, store wet, measure.

Open junction: easy to clean, resistant to blocking.

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Technical parameters

Parameter	Specification
Model / order code	PRO6142
Electrode type	pH composite (combination) electrode
Measuring range	pH 0 – 14
Working temperature	0 – 80 °C
pH sensor	Hemispherical glass bulb
Body material	Polycarbonate
Reference system	Long-life reference
Junction	Open
Fill solution	Not refillable — no electrolyte top-up
Temperature sensor	None
Dimensions	Φ12 × 120 mm
Connector	BNC (Q9)

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



BNC (Q9) connector. Plugs directly into pH meters with a BNC electrode input.

Recommended samples

Field	Sample types • recommended
Aqueous solutions	Dilute acids and alkalis • fertilizer
Food	Yogurt, cheese, butter • jam • soy sauce, vinegar
Beverage	Beer, juice, coffee, carbonated drinks
Pharma / biological	Plasma, gastric juice, urine • protein-containing samples, enzyme solutions, agar media
Chemicals	Dyes, colouring agents, ink • water-based paint, varnish, coating, latex • sizing agents • bleaching liquids, rinses, plating solutions
Cosmetics	Gel, soap, shampoo, hair dye, lotion
Environmental	Municipal wastewater • high-electrolyte samples (salinity > 5 ‰), high-salt industrial wastewater • soil leachate • mud

Ordering data

Order code: PRO6142

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

Consumables: no filling solution required.

Choose another electrode when

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

Organic solvents: use a glass-body electrode.

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

SUPPLIER AND SUPPORT

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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.

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