

PRO5979 • Premium pH Composite Electrode

Glass body • long-life reference • ceramic junction • refillable • S7

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



PRO5979 is the premium electrode of the range for precise laboratory work: an all-glass body, a ceramic junction with a stable potential and a refillable long-life reference. It covers the whole pH scale, including strongly acidic samples below pH 1.

How it is built

 PH SENSOR Spherical bulb General-purpose glass membrane for common solutions.	 BODY Glass 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 Precise laboratory pH

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.

Refillable: the reference electrolyte is topped up with 3 M KCl filling solution.

Ceramic junction: good permeability, stable potential.

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Technical parameters

Parameter	Specification
Model / order code	PRO5979
Electrode type	pH composite (combination) electrode
Measuring range	pH 0 – 14
Working temperature	0 – 80 °C
pH sensor	Hemispherical glass bulb
Body material	Glass
Reference system	Long-life reference
Junction	Ceramic
Fill solution	3 M KCl
Temperature sensor	None
Dimensions	Φ12 × 120 mm
Connector	S7 – BNC (Q9)

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



BNC (Q9) on the meter side. The electrode has an S7 head; the S7–BNC cable connects it to pH meters with a BNC input.

Recommended samples

Field	Sample types • recommended
Aqueous solutions	Dilute acids and alkalis • fertilizer
Food	Soy sauce, vinegar
Beverage	Beer, juice, coffee, carbonated drinks
Pharma / biological	Pharmaceutical formulations • Tris buffer
Environmental	Tap and drinking water (approx. 100 µS/cm) • strongly acidic samples (pH < 1)
Also applicable ○	Fixing and electroplating solutions • plasma, gastric juice, urine • protein-containing samples, enzyme solutions, agar media • soil leachate <i>Service life may be affected.</i>

Ordering data

Order code: PRO5979

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

Accessories: S7–BNC (Q9) cable, 3 M KCl filling solution.

Choose another electrode when

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

PRO5979 PRODUCT PAGE

ELECTROCHEMISTRY — OVERVIEW

ELECTRODE CATALOGUE

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