

PRO4153 • 3-in-1 pH Composite Electrode with Temperature Sensor

pH + reference + temperature • polycarbonate body • refillable • BNC + 4-pin

PH 0–14 5–60 °C REFILLABLE SINGLE FABRIC JUNCTION $\Phi 12 \times 120$ MM BNC (Q9) + 4-PIN



PRO4153 is three sensors in one shaft — pH indicator electrode, reference electrode and temperature probe — so the meter compensates temperature automatically without a separate probe in the sample.

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

Single fabric

Good permeability, stable potential, cost-effective.



CONNECTOR

BNC (Q9) + 4-pin

BNC for pH and a 4-pin aviation plug for temperature.

RANGE

pH 0 – 14

TEMPERATURE

5 – 60 °C

MAINTENANCE

Refillable, 3 M KCl

BEST FOR

Routine pH with ATC

Why choose it

Proven reference: Ag/AgCl reference system for routine laboratory measurement.

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

Single fabric junction: good permeability, stable potential, cost-effective.

Temperature in the same shaft: the built-in sensor gives the meter the sample temperature for automatic compensation.

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Technical parameters

Parameter	Specification
Model / order code	PRO4153
Electrode type	pH composite (combination) electrode with temperature sensor
Measuring range	pH 0 – 14
Working temperature	5 – 60 °C
pH sensor	Hemispherical glass bulb
Body material	Polycarbonate
Reference system	Ag/AgCl
Junction	Single fabric
Fill solution	3 M KCl
Temperature sensor	Built-in, 2.25 kΩ
Dimensions	Φ12 × 120 mm
Connector	BNC (Q9) + 4-pin

Temperature compensation: the built-in 2.25 kΩ sensor connects through the 4-pin plug; the meter must accept this sensor type.



BNC (Q9) + 4-pin aviation. BNC carries the pH signal, the 4-pin plug carries the temperature signal.

Recommended samples

Field	Sample types • recommended
Aqueous solutions	Dilute acids and alkalis
Environmental	Tap and drinking water (approx. 100 µS/cm)
Also applicable ○	Fixing and electroplating solutions <i>Service life may be affected.</i>

Ordering data

Order code: PRO4153

Connector: BNC (Q9) + 4-pin — check the meter input before ordering.

Accessories: 3 M KCl filling solution.

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 60 °C: use an electrode specified for higher temperature.

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.

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