Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

ELECTROCHEMICAL INSTRUMENTS | REQUEST QUOTE | LABORATORY EQUIPMENT

WATER QUALITY KNOWLEDGE

PRO6142

pH Composite Electrode (Low Maintenance)

Premium unfillable pH electrode · Longlife reference · Open junction · BNC(Q9)

PRO6142 pH Composite Electrode (Low Maintenance) is a premium unfillable pH electrode for routine laboratory, educational and industrial pH measurement workflows where reduced maintenance is required. The electrode combines a **polycarbonate body**, **Longlife reference system**, **open junction**, **unfillable construction** and standard **BNC(Q9)** connector in a compact Φ12×120 mm format.

PH COMPOSITE ELECTRODE | LOW MAINTENANCE | UNFILLABLE | LONGLIFE REFERENCE | OPEN JUNCTION | POLYCARBONATE BODY | PH 0-14 | 0-80 °C | Φ12×120 MM | BNC(Q9)

Document type: **Technical Specification Sheet**
Product family: **Electrochemical Instruments / pH Electrodes**
Model / SKU: **PRO6142**
Product section: **colo.si/products/electrochemical-instruments/**
Format: **A4 landscape · COLO.Science TechSpec v2.4 with navigation links**

PRO6142 · low-maintenance premium unfillable pH composite electrode · main electrode view

MODEL / SKU
PRO6142
pH electrode

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PRO6142 · technical specification

Premium unfillable low-maintenance pH composite electrode for routine pH measurement

PH RANGE 0-14 | WORKING TEMP. 0-80 °C | LONGLIFE REF. | OPEN JUNCTION | BNC(Q9) - Low-maintenance pH electrode for busy laboratory workflows

Product Overview

Application profile

Routine laboratory pH: suitable for aqueous samples, daily QC checks, education and general bench measurements.

Reduced maintenance: unfillable construction removes routine electrolyte refilling and simplifies handling.

Difficult routine samples: open junction design helps reduce clogging risk in samples with suspended solids or proteins.

Industrial and educational use: polycarbonate body supports practical handling in busy laboratory and training environments.

Design and handling advantage

Composite design: pH indicator and reference electrode functions are combined in one practical probe.

Unfillable system: no electrolyte top-up is required during normal use.

Longlife reference: designed for extended service stability in routine pH measurement.

Standard format: Φ12×120 mm body fits common electrode holders, laboratory stands and sample vessels.

Key features

pH measurement: full pH 0-14 application range for general aqueous sample work.

Reference system: Longlife reference for long-term stability in routine measurement.

Junction: open, free-flowing aperture for stable sample contact and reduced clogging risk.

Maintenance: premium unfillable design eliminates regular fill-solution replenishment.

Connection: BNC(Q9) connector for direct use with compatible laboratory and portable pH meters.

Temperature: specified for 0-80 °C working conditions.

Core technical summary

Parameter	Specification
Model / SKU	PRO6142
Electrode type	pH composite electrode (Low Maintenance)
Body / sensor material	Polycarbonate
Reference type	Longlife Ref.
Junction material	Open
Fill solution	Unfillable
pH range	0-14
Working temperature	0-80 °C
Dimensions	Φ12×120 mm
Connector	BNC(Q9)

PH RANGE
0-14

MAINTENANCE
Unfillable

REFERENCE
Longlife Ref.

CONNECTOR
BNC(Q9)

Technical Specifications

Electrode construction and measurement profile

Parameter	Specification
Product name	pH Composite Electrode (Low Maintenance), Premium Unfillable
Model / SKU	PRO6142
Electrode type	pH composite electrode
Measurement parameter	pH
pH range	0-14 pH
Working temperature	0-80 ℃
Body / sensor material	Polycarbonate
Reference type	Longlife Ref.
Junction material	Open junction / free-flowing aperture
Fill solution	Unfillable
Dimensions	Φ12×120 mm
Connector type	BNC(Q9)

Compatibility and use notes

Topic	Technical note
Meter input	Designed for pH meters with BNC / Q9 electrode input.
S7 meters	For meters with S7 input, use an S7-BNC(Q9) cable if compatible with the instrument.
Temperature compensation	This is a pH electrode. Temperature compensation depends on the connected meter and separate temperature probe configuration.
Storage	Store according to pH electrode maintenance practice; avoid dry storage of the sensitive membrane.
Calibration	Calibrate with fresh pH buffers according to the laboratory method and expected sample range.

Product selection table

Selection item	Specification / guidance
Recommended use	Routine laboratory pH measurement where low maintenance and clogging resistance are important.
Best fit	Education, routine QC, water-quality checks, process sample screening and standard bench measurement.
Handling advantage	Polycarbonate body improves robustness compared with fragile glass-body designs.
Reference design	Longlife reference system for extended routine stability.
Junction behavior	Open junction / free-flowing aperture for improved contact with samples and reduced clogging risk.
Instrument match	Compatible with pH meters accepting BNC(Q9) pH electrode input.
Product section	Open electrochemical instruments section
Request quote	Contact COLO.Science for configuration confirmation

Specification note

Connector matching: confirm that the pH meter has a BNC(Q9) pH input before ordering.

Application range: for aggressive chemicals, high ionic strength samples or non-aqueous samples, confirm whether a specialized electrode is required.

Quotation control: final supplied configuration, packaging and documentation should be confirmed in the official COLO.Science quotation.

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

Electrode Body and BNC(Q9) Connector Visual Support

PRO6142 · complete electrode body · premium low-maintenance pH composite electrode

Visual reference and functional elements

Electrode body: polycarbonate shaft in standard Φ12×120 mm format for common laboratory holders and sample vessels.

Sensor area: pH-sensitive measuring end intended for routine aqueous pH measurement.

Reference system: Longlife reference with open junction and unfillable construction.

Connector: BNC(Q9) connection for standard pH meter input compatibility.

Product image references

Electrode body · low-maintenance pH composite electrode

Connector detail · BNC(Q9) pH electrode connection

Compatibility notice - connector and meter matching are essential

PRO6142 uses a BNC(Q9) connector. Before ordering, verify that the pH meter accepts BNC / Q9 pH electrode input. If the meter uses S7 or another electrode interface, cable or electrode compatibility must be confirmed before purchase.

Selection and Use Notes

For routine pH

Calibration: use fresh buffers covering the expected measurement range.

Condition check: monitor response stability and calibration behavior before critical measurements.

For low maintenance

No refill: unfillable design reduces routine maintenance work.

Open junction: useful where clogging resistance is important in routine sample work.

For ordering

Connector: confirm BNC(Q9) pH input on the instrument.

Documentation: request final quotation confirmation for supplied packaging and accessories.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the meter model, connector type, sample type, expected pH range, working temperature and sample matrix. COLO.Science can help confirm whether PRO6142 is the correct low-maintenance pH electrode or whether a specialized electrode is required.

CONTACT AND NAVIGATION

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Product section: Electrochemical instruments

Knowledge: Water quality articles

COLO.SCIENCE · PH ELECTRODE SELECTION

Need confirmation for pH electrode compatibility?

For correct electrode selection, confirm the pH meter connector, sample type, expected temperature range and measurement workflow. COLO.Science can support electrode matching, accessory selection and quotation preparation for routine pH laboratories.

Request quote | Electrochemical instruments | COLO.Science home

Document: PRO6142 Low Maintenance pH Composite Electrode · Technical Specification · COLO.Science
Online support: **colo.si** · E-mail: **sales@colo.si**