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PRO6240

Fluoride Ion Selective Electrode · F⁻ ISE · BNC(Q9) Connector

PRO6240 Fluoride Ion Selective Electrode is an ion-selective electrode for fluoride ion measurement in compatible ISE-capable meters. The electrode uses a crystalline-state membrane, plastic body and BNC(Q9) connector, and is intended for economical ion measurement workflows such as direct reading, standard addition, sample addition and GRAN methods when supported by the connected meter.

FLUORIDE ISE

F⁻ SPECIES

10⁻¹ TO 10⁻⁶ M

CRYSTALLINE MEMBRANE

PLASTIC BODY

Ø12 × 120 MM

5–45°C

BNC(Q9)

REFERENCE ELECTRODE REQUIRED

Document type: **Technical Specification Sheet**

Product family: **Electrochemistry / Ion Selective Electrodes**

Model / SKU: **PRO6240**

Electrode type: **Fluoride Ion Selective Electrode · F⁻ ISE**

Format: **A4 landscape · COLO.Science TechSpec v2.4 with navigation links**

Note: **All product identification in this document refers to SKU PRO6240. Connector images are shown only as visual connection references.**



PRO6240 · fluoride ion selective electrode · main unit

MODEL / SKU

PRO6240
Fluoride ISE

ADDRESS / HQ

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PRO6240 · technical specification

Fluoride ion selective electrode for compatible ISE-capable meters

F⁻ FLUORIDE

10⁻¹ M ~ 10⁻⁶ M

CRYSTALLINE-STATE MEMBRANE

BNC(Q9)

REFERENCE ELECTRODE REQUIRED

— Electrode configuration must match the meter and reference electrode system

Product Overview

Application profile

Fluoride ion measurement: designed for fluoride ion activity / concentration measurement using a compatible ion meter or ISE-capable electrochemistry meter.

Routine ISE workflows: suitable for economical ion measurement where direct reading or addition-based methods are required.

Laboratory and QA/QC use: applicable in water, environmental, educational and routine analytical workflows where fluoride ion determination is required.

Method-dependent operation: available ISE modes such as Auto-reading, Standard Add, Sample Add and GRAN depend on the connected meter functions.

Key features

Species: fluoride ion, F⁻.

Measuring range: 10⁻¹ M to 10⁻⁶ M.

Membrane: crystalline-state membrane for fluoride ion-selective measurement.

Body: plastic electrode body for routine laboratory handling.

Dimensions: Ø12 × 120 mm electrode format.

Working temperature: 5–45°C operating range.

Connector: BNC(Q9), meter compatibility to be confirmed before delivery.

System concept

Ion-selective electrode: PRO6240 is the measuring electrode for fluoride ions.

Reference electrode: ISE measurement requires cooperation with a compatible reference electrode, for example 232-01-X reference electrode or equivalent confirmed configuration.

Connector compatibility: connector selection must match the meter input. PRO6240 is specified with BNC(Q9) connection; S7 versions require an S7-BNC(Q9) cable when applicable.

Single SKU principle: connector visual references in this document do not define a separate product SKU; the electrode SKU remains PRO6240.

Core technical summary

Parameter	Specification
Model / SKU	PRO6240
Species	Fluoride (F ⁻)
Name	Ion selective electrode
Measuring range	10 ⁻¹ M ~ 10 ⁻⁶ M
Membrane	Crystalline-state membrane
Body	Plastic
Dimension	Ø12 × 120 mm
Working temperature	5–45°C
Connector	BNC(Q9)

ION SPECIES

Fluoride F⁻

RANGE

10⁻¹–10⁻⁶ M

MEMBRANE

Crystalline-state

CONNECTOR

BNC(Q9)

Technical Specifications

Electrode specification

Parameter	Specification
Model / SKU	PRO6240
Species	Fluoride (F ⁻)
Product name	Ion selective electrode
Electrode type	Fluoride ion selective electrode
Measuring range	10 ⁻¹ M ~ 10 ⁻⁶ M
Membrane	Crystalline-state membrane
Body material	Plastic
Dimension	∅12 × 120 mm
Working temperature	5–45°C
Connector	BNC(Q9)

ISE measurement mode support

Measurement mode	Technical note
Auto-reading	Available when supported by the connected ISE-capable meter.
Standard Add	Addition-based ISE method; availability depends on meter software/function set.
Sample Add	Sample addition method; availability depends on meter software/function set.
GRAN methods	Supported only where the connected meter includes GRAN calculation functions.

Compatibility and configuration

Item	Configuration note
Meter compatibility	Use only with a compatible ion meter or ISE-capable electrochemistry meter.
Reference electrode	ISE probe requires a compatible reference electrode; example: 232-01-X reference electrode.
Connector requirement	Connector must match the meter input. This configuration is specified as BNC(Q9).
S7 option note	Where an S7 electrode configuration is used, an S7-BNC(Q9) cable is required to connect to a BNC(Q9) meter input.
Connector image note	Connector detail image is for visual reference only; it does not assign a second SKU to the electrode.
Single SKU rule	All product identification in this technical sheet remains PRO6240.
Final configuration	Confirm electrode, cable/reference electrode and meter compatibility in the official quotation.

Specification note

Sample matrix: confirm sample type, expected fluoride concentration range and any matrix preparation requirements before final configuration.

Reference system: final measurement reliability depends on correct pairing of ISE, reference electrode, meter and method settings.

Connector: BNC(Q9) compatibility should be checked against the selected meter input before delivery.

Documentation: final method, accessories and calibration/standard solutions should be confirmed for each quotation.

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

Visual Support, Compatibility and Use Notes



PRO6240 · fluoride ion selective electrode · main electrode body

Typical configuration logic

Main product: PRO6240 Fluoride Ion Selective Electrode.

Measurement species: fluoride ion F^- .

Reference electrode: compatible reference electrode required for ISE measurement, such as 232-01-X or confirmed equivalent.

Meter connection: BNC(Q9) connector must match the meter input.

Cable note: if an S7 electrode/cable arrangement is used, confirm S7-BNC(Q9) cable compatibility with the meter.

Image references



Main unit · PRO6240 fluoride ISE electrode



Connector detail · BNC(Q9) visual reference, not a separate SKU

SKU note — connector image is not a second product code

The electrode is identified in this document as **PRO6240**. The connector image is included only to help visually explain the BNC(Q9) connection type. Final connector/cable/reference-electrode compatibility should always be checked against the selected meter and confirmed before delivery.

Selection and Use Notes

For fluoride ISE measurement

Range: check that expected sample concentration fits the 10^{-1} to 10^{-6} M measurement range.

Method: confirm whether direct reading, Standard Add, Sample Add or GRAN method is required

For meter compatibility

Connector: confirm BNC(Q9) input or required adapter/cable before order confirmation.

Software: addition and GRAN methods require suitable meter functions.

For quotation

Include: meter model, desired measuring range, sample type and method requirement.

Confirm: electrode, reference electrode, cable and standards/ accessories as one functional measurement set.

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WATER QUALITY KNOWLEDGE

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the meter model, sample type, expected fluoride range, required ISE method and connector/reference-electrode requirements. COLO.Science can help confirm the correct PRO6240 electrode configuration and compatible accessory set for your measurement workflow.

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COLO.SCIENCE · PRO6240 FLUORIDE ION SELECTIVE ELECTRODE SUPPORT

Need help confirming the correct fluoride ISE configuration?

Send the meter model, sample matrix, expected fluoride concentration range, required method and connector/reference-electrode requirements. COLO.Science can help confirm whether PRO6240 is the correct fluoride ISE configuration for your laboratory workflow.

Request a quote

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Open PDF datasheet

Water quality knowledge

Product identification: **PRO6240 Fluoride Ion Selective Electrode** · Connector reference: BNC(Q9)

Official configuration and manufacturer-confirmed specification notice:

This technical specification is provided for orientation, product selection and general information only. It does not represent the final binding technical specification, delivered configuration, accessory set, procurement requirement or acceptance criterion for a specific unit. The final official technical specification is only the specification confirmed by the manufacturer and issued for the exact configuration through an official COLO.Science quotation, proforma invoice, contract document, order confirmation or manufacturer-approved technical offer. Any values, options, accessories, connector arrangements or configurations shown in this document must be verified for the specific delivery and should not be used as an exclusion or elimination criterion in procurement procedures without written manufacturer confirmation.