

PRODUCT PAGE

REQUEST QUOTE

PH METERS

WATER QUALITY KNOWLEDGE

PRO6151

pH Composite Electrode · HF Acid Titration · PP Body · Ceramic Junction · S7 Connector

PRO6151 pH Composite Electrode is a specialised HF-resistant electrode for pH measurement and titration workflows in aggressive, fluoride-containing media. The electrode combines a **PP body, ceramic junction, Longlife reference system** and **3 M KCl** fill solution to support stable readings where standard glass-body electrodes are not suitable.

HF ACID TITRATION

PH RANGE 2–11

PP BODY

CERAMIC JUNCTION

LOGLIFE REFERENCE

3 M KCL

0–60 °C

Φ12×120 MM

S7 CONNECTOR

Document type: **Technical Specification Sheet**

Product family: **Electrochemistry / pH Electrode / Water Quality Accessories**

Product name: **pH composite electrode (HF acid Titrate)**

SKU: **PRO6151**

Product page: colo.si/product/ph-electrode-hf-acid-titrate/

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



PRO6151 · pH composite electrode for HF acid titration · PP body

SKU

PRO6151
HF acid titrate

ADDRESS / HQ

Polje ob Sotli 4
SI-3255, Slovenia

CONTACT

sales@colo.si
+386 64 222 724

PRODUCT PAGE

REQUEST QUOTE

COLO.SCIENCE HOME

PH KNOWLEDGE

PRO6151 · technical specification

HF-resistant pH composite electrode for titration applications in aggressive media

PH 2–11

0–60 °C

PP SENSOR BODY

CERAMIC JUNCTION

3 M KCL

— Designed for HF acid titration and fluoride-containing sample matrices

Product Overview

Application profile

HF-containing media: intended for pH measurement in hydrofluoric acid or aggressive fluoride-containing solutions where conventional electrode materials may be rapidly attacked.

Titration workflows: suitable for analytical procedures that require electrode stability during controlled addition of titrant and endpoint tracking.

Chemical processing: applicable in metal finishing, semiconductor, glass etching support workflows and other laboratories handling fluoride-based chemistries.

Routine laboratory use: standard $\Phi 12 \times 120$ mm format supports common titration vessels, electrode holders and bench pH meter setups.

Design and handling advantage

PP body: polypropylene construction provides chemical resistance for HF-related measurement conditions.

Composite electrode: combines pH indicator and reference electrode in one body for simpler routine handling.

Ceramic junction: stable porous junction supports consistent reference potential during titration.

S7 connector: compact detachable connector format; use an S7-BNC(Q9) cable when the meter input is BNC/Q9.

Key features

pH range: 2–11 for acidic to moderately alkaline working conditions.

Temperature range: 0–60 °C for routine laboratory titration conditions.

Reference system: Longlife reference design with 3 M KCl fill solution.

Electrode geometry: $\Phi 12 \times 120$ mm compact laboratory format.

Matrix focus: aggressive chemical environments, especially HF acid titration and fluoride-containing samples.

Compatibility path: S7 connector directly, or S7-BNC(Q9) cable for BNC/Q9 meters.

Core technical summary

Parameter	Specification
SKU	PRO6151
Product name	pH composite electrode (HF acid Titrate)
Electrode type	pH composite electrode
Application	HF acid titration / aggressive fluoride media
pH range	2–11
Sensor material	PP
Junction material	Ceramic
Reference type	Longlife Ref.
Fill solution	3 M KCl
Connector	S7

PH RANGE

2–11

BODY MATERIAL

PP

JUNCTION

Ceramic

CONNECTION

S7



Technical Specifications

Electrode body, chemistry and measurement range

Parameter	Specification
SKU	PRO6151
Name	pH composite electrode (HF acid Titrate)
Electrode category	pH composite electrode
Main application	HF acid titration and aggressive fluoride-containing media
pH range	2–11
Working temperature	0–60 °C
Sensor material	PP / Polypropylene
Chemical resistance profile	Designed for HF-resistant pH measurement where standard glass-body electrodes are not recommended.
Dimensions	Φ12×120 mm
Form factor	Compact laboratory electrode for titration vessels and common electrode holders.

Reference system and junction

Function	Technical note
Reference type	Longlife Ref.
Fill solution	3 M KCl
Junction material	Ceramic
Reference stability	Designed for stable potential and repeatable response in titration workflows.
Maintenance note	Use the storage and maintenance procedure confirmed by the manufacturer and the selected meter/electrode method.

Connection, compatibility and product links

Parameter	Specification
Connector type	S7
BNC meter compatibility	Use with S7-BNC(Q9) cable for pH meters with BNC/Q9 electrode input.
Direct S7 compatibility	Can be used directly where the meter/electrode interface supports S7.
Temperature probe	Not specified as integrated temperature probe; confirm separately if ATC is required.
Recommended verification	Confirm meter connector, cable type, sample matrix and pH/temperature working range before ordering.
Product page	Open PRO6151 product page
Expected HTML	Open PRO6151 HTML datasheet
Expected PDF	Open PRO6151 PDF datasheet

Specification note

HF workflows: hydrofluoric-acid applications require controlled laboratory procedures, compatible vessels and trained personnel.

Connector matching: the electrode has an S7 connector; order the correct S7-BNC(Q9) cable when using standard BNC/Q9 pH meter inputs.

Method compatibility: final suitability depends on sample composition, fluoride concentration, pH range, temperature and titration method.

Configuration notice — connector and meter matching are essential

This electrode uses an S7 connector. For meters with a BNC/Q9 pH input, use an S7-BNC(Q9) cable. Confirm meter input, cable type and electrode application before purchase.

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

Connector, Compatibility and Visual Support



PRO6151 · HF-resistant pH composite electrode · PP body · $\Phi 12 \times 120$ mm

Connector and cable support

S7 electrode connector: detachable electrode connector format used on PRO6151.

S7-BNC(Q9) cable: required when the pH meter uses a standard BNC/Q9 electrode input.

BNC/Q9 meter input: common format on many laboratory pH meters; the cable creates the connection between S7 electrode and BNC meter input.

Order check: confirm whether the cable is included or should be ordered as a separate accessory.

Product image references



Electrode · PP body for HF acid titration



Connector reference · S7-BNC(Q9) cable compatibility

Navigation note — this specification is linked back to COLO.Science

This technical specification contains direct links to the product page, quotation request page, COLO.Science home page and water-quality knowledge area. If a user opens this document directly from Google or on a mobile device, the page remains connected to the main website and quotation path.

Selection and Use Notes

For HF titration

Sample matrix: verify HF concentration, fluoride content, pH range and expected endpoint conditions before selecting the electrode.

Procedure control: use only under approved laboratory SOPs for HF-containing solutions.

For meter compatibility

Connector: PRO6151 uses S7; most BNC/Q9 meters require the matching S7-BNC(Q9) cable.

ATC: this specification does not list an integrated temperature probe; use the meter's separate temperature input where required.

For documentation

Quotation: final cable, accessory and configuration details should be stated in the official offer.

Traceability: keep electrode model/SKU, cable type and meter model in the method record.

[PRODUCT PAGE](#)

[REQUEST QUOTE](#)

[PDF DATASHEET](#)

[COLO.SCIENCE HOME](#)

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the sample matrix, HF/fluoride conditions, required pH range, temperature range, meter model and connector type. COLO.Science can help confirm whether PRO6151 and the required S7-BNC(Q9) cable are the correct configuration for the measurement workflow.

QUICK CONTACT

 colo.si

 sales@colo.si

 [+386 64 222 724](tel:+38664222724)

 [PRO6151 product page](#)

COLO.SCIENCE · PRO6151 HF-RESISTANT PH ELECTRODE SUPPORT

Need help confirming the correct pH electrode for HF acid titration?

Send the sample composition, HF/fluoride content, pH range, temperature range, titration method, pH meter model and required connector. COLO.Science can help confirm whether PRO6151 is the correct electrode and whether the S7-BNC(Q9) cable is required.

[Open product page](#)

[Request a quote](#)

[Open PDF datasheet](#)

[COLO.Science home](#)

Product page: [PRO6151 pH Composite Electrode for HF Acid Titration](#)

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 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.