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Laboratory & Scientific Equipment

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PRO5981

Premium Glass pH Electrode for Ultra-Pure Water / Tris

Ultrapure water and Tris buffer pH electrode · Longlife Reference · unmovable glass grinding junction · S7 connector

PRO5981 pH Premium Glass Electrode is designed for accurate pH measurement in **ultra-pure water, low-conductivity water and Tris buffer solutions**, where standard pH electrodes may show slow response, unstable potential or measurement drift. The electrode uses a **glass body**, **Longlife Reference** system and **unmovable glass grinding mouth junction** to support stable liquid-junction behavior in demanding high-purity water workflows.

ULTRA-PURE WATER | TRIS COMPATIBLE | PH 0-11 | 0-80 °C | GLASS BODY | LONGLIFE REF. | GLASS GRINDING JUNCTION | 3 M KCL | S7 CONNECTOR | Φ12×185 MM

Document type: **Technical Specification Sheet**
Product family: **Electrochemical Instruments / pH Electrodes**
Model / SKU: **PRO5981**
Product category: **premium glass pH electrode for ultra-pure water and Tris buffer applications**
Product page: **ultra-pure-water-electrode**

PRO5981 · premium glass pH electrode · ultra-pure water / Tris application

MODEL / SKU
PRO5981
pH electrode

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PRO5981 · technical specification

pH premium glass electrode for ultra-pure water and Tris buffer measurement

PH RANGE 0-11 | WORKING TEMP. 0-80 °C | GLASS | LONGLIFE REF. | 3 M KCL | S7 - Specialized electrode for high-purity water and Tris buffer laboratories

Product Overview

Application profile

Ultra-pure water: optimized for pH measurement in deionized, distilled and high-purity water samples.

Tris buffer solutions: suitable for biological and biochemical buffer work where Tris compatibility is required.

Low ionic strength: intended for samples where standard electrodes can drift, respond slowly or become unstable.

Extended reach: Φ12×185 mm body supports deeper vessels, flasks and laboratory setups requiring a longer electrode.

Design and measurement advantage

Composite pH electrode: pH measuring element and reference electrode are integrated in one practical probe.

Glass body: selected for chemical compatibility and stable laboratory measurement behavior.

Unmovable glass grinding junction: supports stable liquid junction potential in difficult high-purity water samples.

Longlife Reference: designed to provide durable reference behavior in demanding routine applications.

Key features

pH measurement: specified pH range from 0 to 11.

Body / sensor material: glass electrode body and sensor construction.

Reference system: Longlife Reference for stable operation.

Junction: unmovable glass grinding mouth junction.

Electrolyte: 3 M KCl fill solution.

Connection: S7 connector for compatible S7 cable or S7-BNC(Q9) cable setup.

Core technical summary

Parameter	Specification
Model / SKU	PRO5981
Electrode type	pH composite electrode for ultra-pure water / Tris
Fill solution	3 M KCl
Sensor material	Glass
Reference type	Longlife Reference
Junction material	Unmovable glass grinding mouth
pH range	0-11
Working temperature	0-80 °C
Dimensions	Φ12×185 mm
Connector	S7

SAMPLE TYPE
Ultra-pure water / Tris

PH RANGE
0-11

REFERENCE
Longlife Ref. · glass grinding junction

CONNECTOR
S7

Technical Specifications

Electrode construction and measurement profile

Parameter	Specification
Product name	pH premium glass electrode for ultra-pure water / Tris
Model / SKU	PRO5981
Electrode type	pH composite electrode
Measurement parameter	pH
Recommended sample type	Ultra-pure water, low-conductivity water, deionized water, distilled water and Tris buffer solutions
pH range	0-11 pH
Working temperature	0-80 °C
Sensor material	Glass
Reference type	Longlife Reference
Junction material	Unmovable glass grinding mouth
Fill solution	3 M KCl
Dimensions	Φ12×185 mm
Connector type	S7

Compatibility and use notes

Topic	Technical note
Meter input	Requires compatible S7 connection or an S7-BNC(Q9) cable for pH meters with BNC input.
Temperature compensation	This is a pH electrode. Temperature compensation depends on the connected meter and separate temperature probe configuration.
Calibration	Calibrate with fresh pH buffers according to laboratory method, expected pH range and purified-water measurement practice.
Low-conductivity practice	Allow sufficient stabilization time and avoid sample contamination during measurement.
Storage	Store and clean according to the applicable laboratory method and electrode storage guidance.

Product selection table

Selection item	Specification / guidance
Recommended use	pH measurement in ultra-pure water and Tris buffer solutions where conventional electrodes may be unstable.
Best fit	Pharmaceutical water systems, biotechnology labs, purified-water QC, semiconductor support labs and research laboratories.
Handling advantage	Long glass electrode body supports deep vessels and stable laboratory positioning.
Reference design	Longlife Reference system for stable reference behavior in demanding applications.
Junction behavior	Unmovable glass grinding mouth junction supports stable contact between reference system and sample.
Instrument match	Confirm S7 connector compatibility or required S7-BNC(Q9) cable before ordering.
Product page	Open PRO5981 product page
Request quote	Contact COLO.Science for configuration confirmation

Specification note

Connector matching: confirm whether the meter requires S7, BNC(Q9) or an S7-BNC(Q9) cable before ordering.

Low-conductivity practice: ultra-pure water has very low buffering capacity, so clean vessels and stable conditions are important.

Tris application: confirm method requirements and buffer type when selecting electrodes for biological buffer workflows.

Quotation control: final supplied configuration, cable, accessories 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, connector/cable arrangement and documentation should be confirmed through the official COLO.Science quotation or manufacturer-confirmed offer.

Electrode Body and Connector Visual Support

PRO5981 · complete electrode body · premium glass pH electrode for ultra-pure water / Tris

Visual reference and functional elements

Electrode body: glass shaft in Φ12×185 mm extended format for laboratory holders and deeper sample vessels.

Sensor area: pH-sensitive measuring end intended for low-conductivity and ultra-pure water pH measurement.

Reference system: Longlife Reference system to support stable performance in high-purity water and Tris buffers.

Junction: unmovable glass grinding mouth junction for stable liquid-junction behavior.

Connector: S7 connection; use compatible S7 connection or S7-BNC(Q9) cable when connecting to BNC meters.

Product image references

Electrode body · premium glass pH electrode

Connector reference · S7 / S7-BNC(Q9) compatibility check required

Compatibility notice - connector and meter matching are essential

PRO5981 uses an S7 connector. When the pH meter has a BNC input, an S7-BNC(Q9) cable is required. Before ordering, verify the exact meter connector type, cable requirement and whether a separate temperature probe is needed for the intended measurement workflow.

Selection and Use Notes

For ultra-pure water

Sample handling: use clean vessels and avoid CO_2 absorption or contamination during measurement.

Stabilization: allow adequate reading stabilization time because low-conductivity samples respond differently from buffered samples.

For Tris buffers

Application fit: intended for pH work in Tris buffer solutions and high-purity water workflows.

Method check: verify buffer composition, temperature and calibration routine before measurement.

For ordering

Connector: confirm S7 connection or S7-BNC(Q9) cable requirement.

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

Contact and Configuration Confirmation

COLO.SCIENCE SUPPORT

PRO5981 · Premium Glass pH Electrode for Ultra-Pure Water / Tris

For quotation, connector confirmation, cable selection and delivery configuration, please contact COLO.Science. Confirm meter connector type, required cable, sample type and any temperature compensation requirement before ordering.

QUICK CONTACT

Email: sales@colo.si

Phone: +386 64 222 724

Web: colo.si

Product: PRO5981 product page

CONFIGURATION BEFORE PURCHASE

Need to match PRO5981 with a pH meter?

Send the meter model, required connector type and sample application. COLO.Science can confirm the correct S7 / S7-BNC(Q9) cable arrangement and quotation configuration.

Request quote | Open product page | Electrochemical instruments

COLO.Science · laboratory electrochemical instruments, pH electrodes and application support.

Disclaimer: This technical specification is an informational COLO.Science document prepared for product selection and communication. Product images, connector details, accessories, supplied cable configuration and technical values may be updated or adjusted by the manufacturer. Only the official quotation, order confirmation or manufacturer-confirmed technical documentation should be treated as the binding specification for procurement, tender or validation purposes.