

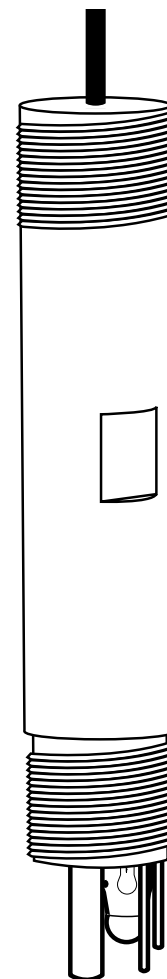
AquaPro Series AQUA10 Combination pH Electrode

General Information

The AQUA10 is an industrial combination pH electrode designed for accurate pH measurements in the harshest environments and samples. The AQUA10 is a double junction silver/silver chloride (Ag/AgCl) non-refillable pH electrode with a built-in automatic temperature compensation probe and solution ground. Three stainless steel bulb guards protect the pH sensing bulb from particulates or solids in a flowing sample. The electrode has 3/4" NPT threads for mounting within pipe systems or at the end of a piece of conduit for submersion applications.

Recommendations

- Inspect the electrode for scratches, cracks, salts or other deposits on the sensing element and reference junction. Rinse off any precipitates with distilled water.
- To attach the electrode to the monitor, wire the stripped, unterminated ends to the monitor. Refer to the monitor user guide.
- The first time a new electrode is installed, condition the electrode in pH 7 buffer (Cat. No. 910107) for at least 1 hour.
- Put the electrode online and allow the electrode to equilibrate in the sample for a few hours prior to calibration.
- Always use fresh buffers when calibrating. Use Thermo Scientific Orion precision buffers: pH 4 (Cat. No. 910104), pH 7 (Cat. No. 910107) or pH 10 (Cat. No. 910110). Choose buffers that bracket the expected sample pH. Check electrode slope by performing a two-point buffer calibration. Slope should be within 92 to 102 %. For detailed calibration and temperature compensation procedures, consult the monitor user guide.
- To maximize the life of your pH electrode, use the Thermo Scientific Orion pH electrode cleaning kits. After cleaning the electrode, soak it in pH 7 buffer (Cat. No. 910107) for at least 1 hour. Recalibrate the system before returning to online measurements.



Specifications

pH Range:	0 to 14
Temperature Range:	-5 to 60 °C
Pressure Range:	0 to 100 psi
Drift:	≤0.5 pH units for 30 days
Reproducibility:	± 0.01 pH units
Slope:	92 to 102 % (54.4 to 60.3 mV/dec)
ATC Resistance:	30 kΩ
Reference System:	<i>CONTACT</i>
Reference Electrolyte:	Non-refillable, <i>CONTACT</i> polymer gel
AQUA10 Diameter/Length:	30 mm / 170 mm
Cable:	Coaxial, 5 meters

Ordering Information

Cat. No.	Description
AQUA10	Industrial combination pH electrode
910104	pH 4.01 buffer, 475 mL bottle
910107	pH 7.00 buffer, 475 mL bottle
910110	pH 10.01 buffer, 475 mL bottle
900021	pH cleaning solution A for removing protein contaminants, 4 x 30 mL bottles
900022	pH cleaning solution B for general cleaning and removing bacterial contaminants, 4 x 60 mL bottles
900023	pH cleaning solution C for general cleaning, 4 x 30 mL bottles
900024	pH cleaning solution D for removing oil and grease contaminants, 4 x 60 mL bottles

©2008 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries.



Environmental Instruments Water Analysis Instruments

North America
166 Cummings Center
Beverly, MA 01915 USA
Toll Free: 1-800-225-1480
Tel: 1-978-232-6000
Dom. Fax: 1-978-232-6015
Int'l Fax: 978-232-6031

Europe
P.O. Box 254, 3860 AG Nijkerk
Wallerstraat 125K, 3862 BN
Nijkerk, Netherlands
Tel: (31) 033-2463887
Fax: (31) 033-2460832

Asia Pacific
Blk 55, Ayer Rajah Crescent
#04-16/24, Singapore 139949
Tel: 65-6778-6876
Fax: 65-6773-0836

www.thermo.com/water

255077-001 Rev.A 03-08

Thermo
SCIENTIFIC