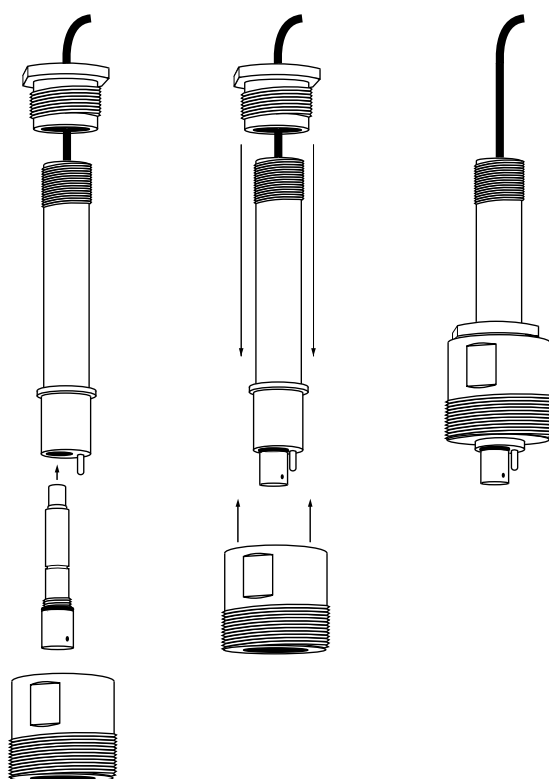


# AquaPro Series AQUA30 Combination pH Electrode and AQUA3H Housing and Adapter

## General Information

The AQUA30 is an industrial combination pH electrode designed for accurate pH measurements in the harshest environments and samples. The AQUA30 is a flat-surface electrode that is ideal for oily samples or samples that may contain particulates. The AQUA30 is a double junction silver/silver chloride (Ag/AgCl) non-refillable pH electrode with a built-in automatic temperature compensation probe and solution ground.

The AQUA30 electrode screws into the AQUA3H electrode housing, see image 1. The electrode can be easily removed for cleaning or replacement. The adapter nut supports the electrode housing and has 1-1/2" NPT threads for mounting within pipe systems. The adapter nut then slides over the housing into the adapter, see image 2. The AQUA3H electrode housing has 3/4" NPT threads for mounting at the end of a piece of conduit for submersion applications, see image 3.



## 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 13
Temperature Range:	-5 to 80 °C
Pressure Range:	0 to 100 psi
Drift:	≤0.5 pH units for 30 days
Reproducibility:	±2%
Slope:	92 to 102 % (54.4 to 60.3 mV/dec)
ATC Resistance:	30 kΩ
Reference System:	HYDRAPERM
Reference Electrolyte:	Non-refillable, polymer gel
AQUA3H Diameter/Length:	1.3" / 5.3"
Cable:	Coaxial, 5 meters

## Ordering Information

Cat. No.	Description
AQUA30	Industrial combination pH electrode, flat surface
AQUA3H	Housing and adapter for the AQUA30 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](http://www.thermo.com/water)

