

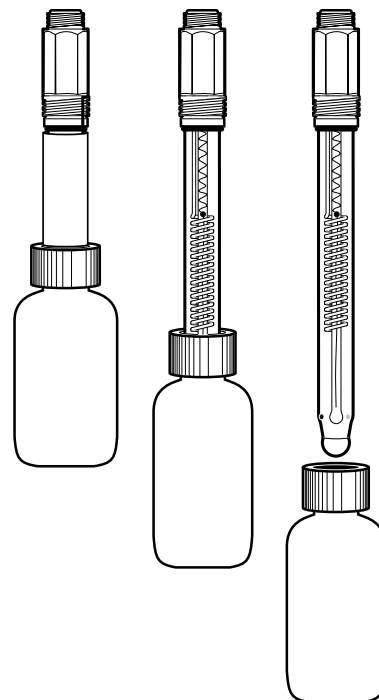
AquaPro Series AQUA40 Combination pH Electrode

General Information

The AQUA40 combination pH electrode features a glass body designed for accurate pH measurements in a flow cell. The AQUA40 is a double junction Ag/AgCl nonrefillable pH electrode with an S8 connector.

Recommendations

- Remove the electrode from the electrode storage bottle.
- Inspect the electrode for scratches, cracks, salts or other deposits on the sensing element and reference junction. Rinse off any precipitates with distilled water.
- 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:	0 to 60 °C
Pressure Range:	0 to 100 psi
Drift:	≤0.5 pH units for 30 days
Reproducibility:	± 0.01 pH
Slope:	92 to 102 % (54.4 to 60.3 mV/dec)
Reference System:	CONTACT
Reference Electrolyte:	Non-refillable, polymer gel
Electrode Diameter:	12 mm
Electrode Length:	120 mm
Cable Connection:	S8 connector for 1, 5 or 10 meter detachable cables

Ordering Information

Cat. No.	Description
AQUA40	AquaPro combination pH electrode
2001EC	1 meter detachable cable
20015M	5 meter detachable cable
2001XM	10 meter detachable cable
910001	pH electrode storage solution, 475 mL bottle
910003	Electrode storage bottle, pack of 3
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

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