

## Orion™ ROSS™ and ROSS Ultra™ pH Electrodes

### Don't worry about drift—drift is less than 0.002 pH per day

- Get fast, accurate, and stable pH readings
- Ideal for food, pharmaceuticals, or biological samples

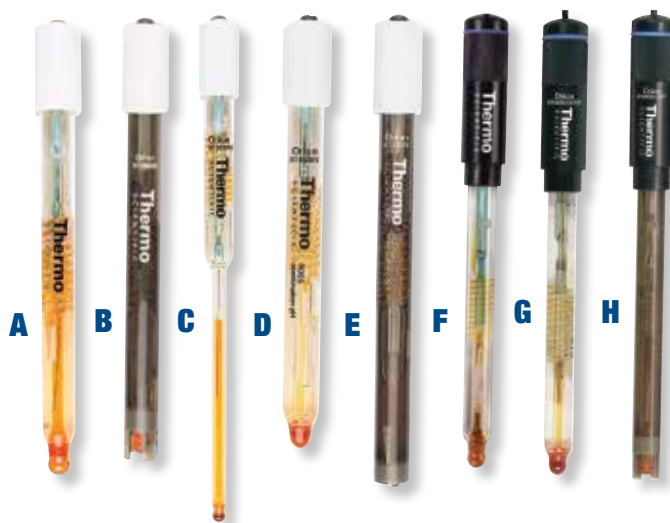
These pH electrodes offer a great mercury-free alternative to calomel electrodes—excellent for use in Tris buffer. The double-junction design protects the inner reference solution and prolongs the life of the electrode. Readings stabilize to 0.01 pH in less than 30 seconds—even with a 50°C temperature change. Electrodes read pH from 0 to 14. Maximum temperature is 212°F (100°C).

**ROSS pH Electrodes** utilize a platinum wire with 3 M KCl to prevent sample contamination with silver and mercury ions. All ROSS pH electrodes have BNC connector.

**What's included:** 3.3-ft (1-m) cable and BNC connector, and 60 mL of 3 M KCl filling solution.

**ROSS Ultra pH Electrodes** use a nonmetallic reference system featuring instantaneous liquid-liquid equilibration for contamination-free sampling, greater stability, and more accurate results. Maintains 0.01 pH precision over long periods of time. Backed by 2-year replacement warranty.

**What's included:** 3.3-ft (1-m) cable and the exclusive Star™ Series waterproof BNC connector (compatible with any pH meter that accepts BNC input), and 60 mL of 3 M KCl filling solution.



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Applications	Description	Length x dia (mm)	ROSS pH electrodes			ROSS Ultra pH electrodes		
			Key	Catalog number	Price	Key	Catalog number	Price
General-purpose, Tris buffers, nonaqueous solutions, and DI water	Glass body	120 x 12	A	<a href="#">GH-05718-02</a>		F	<a href="#">GH-05718-70</a>	
For rugged general-purpose use, Tris buffers, nonaqueous solutions, and DI water	Epoxy body	120 x 12	B	<a href="#">GH-05718-07</a>		G	<a href="#">GH-05718-77</a>	
Small sample size or samples in small-diameter vessels	Glass body	165 (total); 95 x 6	C	<a href="#">GH-05718-16</a>		—	—	
Rugged general-purpose and field use, nonaqueous solutions, and DI water	Glass body with rugged bulb	120 x 12	D	<a href="#">GH-05718-27</a>		H	<a href="#">GH-05718-73</a>	
Soft, moist surfaces of solids or semisolids such as agar plates	Epoxy body, flat surface	120 x 12	E	<a href="#">GH-05718-32</a>		—	—	

#### Accessories

**GH-05730-52 Filling solution** for all ROSS and ROSS Ultra electrodes, 3 M KCl. Case of five 60-mL bottles

**GH-05730-60 ROSS pH electrode storage solution**, 475-mL bottle

## PerpHect™ ROSS™ pH Microelectrode

### Easily measure small samples with ROSS precision

- Utilizes ROSS sensor technology for optimal temperature response and stability
- Fits into very small vessels—sensing tip diameter is only 3 mm for samples as small as 15 µL
- No breaking—PTFE sleeve protects electrode

This refillable microelectrode features Orion's renowned ROSS technology for fast, accurate, and stable pH readings. Response time is 0.01 pH units in 30 seconds while drift is less than 0.002 pH units per day. Double-junction system makes this microelectrode compatible with Tris buffers and samples containing proteins and enzymes. Non-mercury electrode is a great alternative to calomel-based microelectrodes.

**What's included:** 3.3-ft (1-m) cable, BNC connector, and 50 mL of filling solution.

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Applications	Description	pH range	Temperature range	Length x dia (mm)	Catalog number	Price
Microtubes, microwell plates, small volumes	ROSS pH microelectrode	0 to 14	32 to 212°F (0 to 100°C)	155 x 3	<a href="#">GH-05718-21</a>	

#### Accessories

**GH-05730-52 Filling solution** for all ROSS electrodes, 3 M KCl. Case of five 60-mL bottles

**GH-05730-60 ROSS pH storage solution**. One 475-mL bottle

