

Orion pH Electrode Specifications

The Best Just Got Better.





The combination of benefits in the ROSS Ultra® and ROSS® Line cannot be found in any other pH electrode line. Before you make your next buying decision, consider these advantages.

The premium ROSS Ultra line currently contains six combination pH electrode styles and a half-cell reference electrode. These electrodes build upon the ROSS line and offer such great stability and drift improvements that the warranty period has been doubled!

These refillable electrodes have a two year replacement warranty, the best in the business. ROSS Ultra stability over time has been optimized to give less long

term drift. For the user that means more accuracy and less time recalibrating. The non-metallic reference system offers benefits over the calomel and silver reference in both performance and electrode disposal issues. The liquid-liquid equilibration occurs almost instantaneously, saving time plus ensuring accurate results. Complex, delicate samples, such as biological media, foods and pharmaceuticals, can be measured with ease where metallic reference electrodes would contaminate the sample, require excessive cleaning to perform correctly or potentially destroy the electrode in a short time. All ROSS Ultra® electrodes can be used in samples that contain Tris, sulfides or proteins. ROSS Ultra electrodes accommodate a change in filling solution for samples sensitive to potassium or chloride ions. ROSS Ultra offers users the best temperature performance of all other electrodes in repeated, varying temperatures.

Orion ROSS Ultra®

 <p>Orion 800500U ROSS Ultra Reference Half-Cell with glass body Recommended Use: Precise pH determinations for routine or research work. Use with ROSS pH Half Cell electrode, 81-01 and ROSS sodium half cell 8411 Orion # 800500U (2) New</p>	 <p>Orion 8102BNUWP ROSS Ultra Combination with glass body Recommended Use: Precise pH determinations. The general purpose, top performance combination electrode. Ideal for Q.C. and research applications. Orion # 8102BNUWP (1)</p>	 <p>Orion 8103BNUWP ROSS Ultra Combination with glass body, semi-micro bulb Recommended Use: Fits test tubes, measures samples as small as 0.2 mL. For use in clinical, pharmaceutical, and food labs, wherever sample size is a constraint. Orion # 8103BNUWP (1)</p>	 <p>Orion 8104BNUWP ROSS Ultra Combination with glass body, rugged bulb Recommended Use: Toughened bulb for rugged lab use and precise Q.C. measurements. Orion # 8104BNUWP (1)</p>
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 <p>Orion 8115BNUWP ROSS Ultra Combination with epoxy body, semi-micro. Recommended Use: Epoxy body for ruggedness and durability. Same applications as 81-03. Aqueous solutions only. Orion # 8115BNUWP (1)</p>	 <p>Orion 8135BNUWP ROSS Ultra Combination with epoxy body, flat surface Recommended Use: pH of soft, moist surfaces both solid and semi-solid such as agar gel plates, meats, bread dough and similar samples. Small samples in micro sample dish. Orion # 8135BNUWP (1)</p>	 <p>Orion 8156BNUWP ROSS Ultra Combination with epoxy body Recommended Use: General purpose when precise pH determination is required. Epoxy body for ruggedness and durability. Orion # 8156BNUWP (1)</p>
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Orion ROSS Ultra							
	800500U	8102BNUWP	8103BNUWP	8104BNUWP	8115BNUWP	8135BNUWP	8156BNUWP
pH Range	0-14	0-14	0-14	0-14	0-14	0-14	0-14
Temp. Range	0-100 °C	0-100 °C	0-100 °C	0-100 °C	0-100 °C	0-100 °C	0-100 °C
Internal Ref.	ROSS	ROSS	ROSS	ROSS	ROSS	ROSS	ROSS
Junction	Ceramic	Ceramic	Ceramic	Ceramic	Glass Fiber	Glass Fiber	Glass Fiber
Dimensions	120 mm x 12 mm	120 mm x 12 mm	165 mm x 6 mm (6mm section is 95mm long)	120 mm x 12 mm	165 mm x 6 mm (6mm section is 95mm long)	120 mm x 12 mm	120 mm x 12 mm

Key

(1) BNC connector, 1 m cable. All cap diameters are 16 mm at bottom of cap. See page 13 for Orion pH electrodes cleaning kits. (2) Pin Tip Connector
ROSS and the COIL tradedress are trademarks of Thermo Electron Corporation. US Patent 6,793,787

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