



## Thermo Scientific Orion pH Half Cell and Reference Half Cell Electrodes

pH half cells require the use of a reference half cell electrode.

Reference half cells are for use with either a pH half cell sensing electrode or an ISE half cell reference electrode. They are available as single or double reference designs. Clog free Sure-flow junctions are also available extending the life of your electrode.

Ross half cells should be paired together. 900100 and 900200 are silver chloride references for pH and ISE electrodes.

**Accurate, ROSS rapid response in a half-cell design**



**ROSS® pH half-cell with glass body**

- Use with 800300 ROSS Sure-Flow or 800500U ROSS Ultra reference electrodes

**Accurate results in a half-cell**



**pH half-cell with glass body**

- Use with 900100 single junction or 900200 double junctions reference electrodes

**Top performance and long life**



**ROSS Ultra® reference half-cell with glass body**

- Use with 8101BNWP or 8101SC ROSS pH half-cell or 8411BN ROSS sodium half-cell electrodes

**For all samples including solvents**



**ROSS® Sure-Flow® reference half-cell with glass body**

- Sure-Flow junction prevents clogging
- Use with 8101BNWP or 8101SC ROSS pH half-cell or 8411BN ROSS sodium half-cell electrodes

**For use with ISE half-cell or pH electrodes**



**Double Junction Sure-Flow® reference half-cell with epoxy body**

- Sure-Flow junction prevents clogging
- Double junction allows a variety of filling solutions to be used

**For routine pH and many ISE measurements**



**Single Junction Sure-Flow® reference half-cell with epoxy body**

- Use with 9101BN and 9101SC pH half-cell electrodes
- Compatible with several ISEs

	8101BNWP 8101SC	9101BN 9101SC	800500U	800300	900200	900100
<b>Cat. No.</b>	8101BNWP 8101SC	9101BN 9101SC	800500U	800300	900200	900100
<b>pH Range</b>	0-14	0-14	0-14	0-14	0-14	0-14
<b>pH Precision</b>	0.01	0.02	–	–	–	–
<b>Temp. Range</b>	0-100 °C	0-90 °C	0-100 °C	0-100 °C	0-100 °C	0-100 °C
<b>Internal Reference</b>	ROSS	Ag/AgCl	ROSS	ROSS	Ag/AgCl Double junction	Ag/AgCl
<b>Junction</b>	–	–	Ceramic	Sure-Flow	Sure-Flow	Sure-Flow
<b>Fill Solution (Cat. No.)</b>	–	–	3 M KCl (810007)	3 M KCl (810007)	Equitransferent solution (900002) outer (900003)	Equitransferent solution w/ Ag/AgCl (900001)
<b>Dimension D (Dia) L (Length) T (Tip)</b>	L - 120 mm D - 12 mm	L - 120 mm D - 12 mm	L - 120 mm D - 12 mm	L - 120 mm D - 12 mm	L - 110 mm D - 13 mm	L - 110 mm D - 13 mm
<b>Connector Type</b>	BNC Waterproof Screw Cap	BNC Screw Cap	Pin Tip	Pin Tip	Pin Tip	Pin Tip

Cat. No.	Recommended Accessories
810007	ROSS fill solution
900001	Single junction reference fill solution
900002	Double junction reference inner fill solution
900003	Double junction reference outer fill solution



**Key Information**

All cap diameters are 16 mm at bottom of cap  
All cable lengths are 1 meter