

# Thermo Scientific Orion Glass Refillable pH Electrodes

Chemical Resistant Glass Bodies

Glass body electrodes offer superior chemical resistance. They are also able to withstand higher temperatures than epoxy electrodes, with some models able to be used up to 100 °C. Glass electrodes are also easy to clean as they are compatible with most solvents and inorganic materials.

ROSS Ultra and ROSS electrodes provide unmatched ROSS accuracy and rapid response to temperature extremes. All are TRIS compatible. ROSS Ultra glass electrodes have an industry best 2 years warranty.

AquaPro refillable electrodes are TRIS compatible and have an open junction that does not clog.

Double junction electrodes are recommended for samples containing organic compounds, proteins, heavy metals and other compounds that interact with silver.

Single junction electrodes provide a reliable option for routine pH measurement.

## Top performance for QC and research



### ROSS Ultra® combination pH electrode with extended life

- For precise pH determinations
- General purpose, high performance

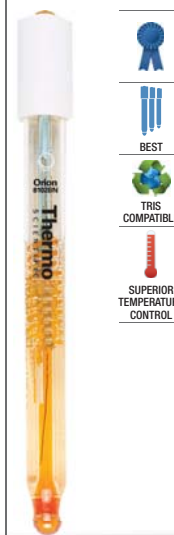
## Precise yet durable, for QC and research



### ROSS Ultra® combination pH electrode with rugged bulb, extended life

- Toughened bulb for rugged lab use

## For precise and reproducible pH determinations



### ROSS® combination pH electrode

- General purpose, high performance
- For QC and research applications

## Durable, for precise pH analysis



### ROSS® combination pH electrode with glass body, rugged bulb

- Toughened bulb for rugged lab use
- For QC and research applications

Cat. No.	8102BNUWP	8104BNUWP	8102BN 8102SC	8104BN 8104SC
pH Range	0-14	0-14	0-14	0-14
pH Precision	0.01	0.01	0.01	0.01
Temp. Range	0-100 °C	0-100 °C	0-100 °C	0-100 °C
Internal Reference	ROSS	ROSS	ROSS	ROSS
Junction	Ceramic	Ceramic	Ceramic	Ceramic
Fill Solution (Cat. No.)	3 M KCl (810007)	3 M KCl (810007)	3 M KCl (810007)	3 M KCl (810007)
Dimension D (Dia) L (Length) T (Tip)	L - 120 mm D - 12 mm	L - 120 mm D - 12 mm	L - 120 mm D - 12 mm	L - 120 mm D - 12 mm
Connector Type	BNC Waterproof	BNC Waterproof	BNC Screw Cap	BNC Screw Cap

Cat. No.	Recommended Accessories
910001	Ag/AgCl storage solution
900011	Ag/AgCl fill solution
910008-WA	3 M KCl double junction fill solution

Cat. No.	Recommended Accessories
810001	ROSS storage solution
810007	ROSS fill solution



**For accurate  
pH analysis  
and titrations**



**ROSS® combination  
pH electrode  
with 14/15  
standard taper**

- For titrators or vessels that require a standard taper joint

**Accurate and  
reliable**



**Double Junction  
combination  
pH electrode**

- General purpose
- Easy-to-clean design

**General purpose  
for everyday use**



**Combination  
pH electrode**

- For routine or research applications

**Durable and  
reliable**



**Combination  
pH electrode with  
rugged bulb**

- Toughened bulb for rugged lab use

**General purpose  
and reliable**



**Combination  
pH electrode**

- General purpose
- Easy-to-clean design

8162SC	9102DJWP	9102BNWP 9102SC	9104BNWP 9104SC	9142BN
0-14	0-14	0-14	0-14	0-14
0.01	0.02	0.02	0.02	0.1
0-100 °C	0-60 °C	0-90 °C	0-90 °C	0-90 °C
ROSS	Ag/AgCl Double junction	Ag/AgCl	Ag/AgCl	Ag/AgCl
Sleeve	Ceramic	Ceramic	Ceramic	Ceramic
3 M KCl (810007)	3 M KCl (910008-WA)	4 M KCl w/ Ag/AgCl (900011)	4 M KCl w/ Ag/AgCl (900011)	4 M KCl w/ Ag/AgCl (900011)
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 - 120 mm D - 12 mm
Screw Cap	BNC Waterproof	BNC Waterproof Screw Cap	BNC Waterproof Screw Cap	BNC



BNC Waterproof



BNC



Screw Cap

**Key Information**

All cap diameters are 16 mm  
All cable lengths are 1 meter