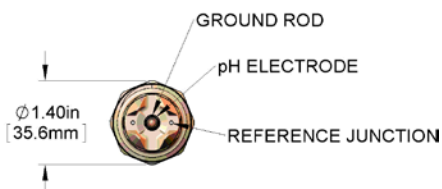
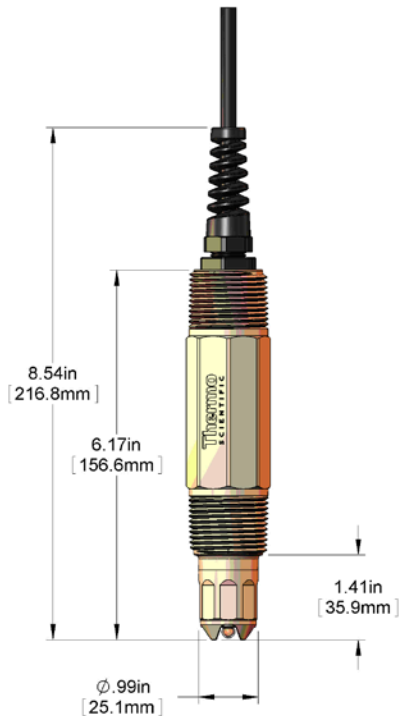


Thermo Scientific

Orion pHR Process ROSS Electrode

Superior Performance, Reliability and Life For a Variety of Applications Including Pure Water

The Thermo Scientific® Orion® pHR Process ROSS® electrode is designed to provide fast accurate measurements in a variety of samples. The double junction design with replaceable salt bridge enhances the life of your electrode providing you with better value. When performance starts to degrade, you simply remove the old salt bridge and electrolyte and replace with new electrolyte and salt bridge and the electrode's performance and response will be rejuvenated.



The new Thermo Scientific Orion pHR Process ROSS electrode offers high performance in a variety of applications. The ROSS reference system provides a drift free measurement system with the most accurate results. There is minimal maintenance and longer lifetime saving you time and money.

- 1 inch NPT mounting
- Replaceable salt bridge extends sensor life
- PT1000 temperature element
- Available in cable lengths of 10—30 feet—Kits available to customize cable length

Markets/Applications

- Wastewater treatment
- Pharmaceutical
- Process Water
- Industrial Water
- Drinking Water
- Power Effluent
- Food Processing

pHR ROSS Electrode Benefits

- Proven ROSS unmatched drift-free reference system
- Accurate and reproducible results in high purity samples
- Double junction design prevents contamination
- Unparalleled pH response to extreme temperature changes
- ROSS reference system provides longer lifetime

Product Ordering Information

Thermo Scientific Orion pH Process ROSS Electrode

Global Support—with experience that comes from supporting our customers for over 50 years throughout the world, our water quality specialists and customer support teams offer a quick, thorough and professional response to any problem encountered.

Focus on User Benefits—We work closely with you to define your needs and ensure you are using the monitor in a way that improves your bottom line. For more information, contact your water quality specialists or visit www.thermoscientific.com/processwater.

Orion pH Process ROSS Electrode Specifications	
Measurement System Performance	
Range	0—14 pH
Resolution	0.01 pH
Accuracy	0.1 pH
pH Response Time	95% in 30 seconds for a pH change of ± 3
Temperature Response	90 % in 2 minutes for a 10°C temperature change
Precision	0.05 pH—0.5°C
Operational Environment	
Temperature Range	-5°C to 95° C (23°F—203°F)
Pressure Range	0—690 KPa (0—100 psig)
Physical Construction	
Sensor	Low temperature, pure water, high temperature pH glass
Ground Rod	Titanium
O-rings	Viton
Sensor Material	PEEK
Length	6.17" (156.6 mm)
Diameter	1.40" (35.9 mm)
Weight	0.5 lbs.

Accessories Ordering Information	
Part No.	Description
Salt Bridge Replacements	
SBPHR-1	PEEK protected for pH ROSS, Quantity 1
SBPHR-3	PEEK protected for pH ROSS, Quantity 3
pH Solutions	
RCPHR-60	pHR ROSS Cell Solution, 60 mL
910104	4.01 pH Buffer, 475 mL Bottle
910107	7.00 pH Buffer, 475 mL Bottle
910110	10.01 pH Buffer, 475 Bottle
Mounting Hardware	
MH3022	1 Inch Tee Mounting, CPVC
MH3011	1 Inch Tee Mounting, 316 Stainless Steel
MH3042	1.5 Inch Union Mounting, CPVC
MH3041	1.5 Inch Union Mounting, 316 Stainless Steel
MH1112	1.5 Inch Ball Valve, CPVC, Low Pressure
MH1111	1.5 Inch Ball Valve, 316 SS, Low Pressure
MH1122	1.5 Inch Ball Valve, CPVC, High Pressure
MH1121	1.5 Inch Ball Valve, 316 SS, High Pressure
JBOXX01 APECCxx,	Junction Box For Extension Cables Extension cable, xx=ft Diameter
Electrodes	
SH36A9E115	pHR ROSS pH with 15' (4.57 m) cable
SH36A9E210	pHR ROSS pH with pre-amplifier, 10' (3.05 m) cable
SH36A9E220	pHR ROSS pH with pre-amplifier, 20' (6.10 m) cable
SH36A9E230	pHR ROSS pH with pre-amplifier, 30' (9.14 m) cable



Thermo Fisher Scientific
Water Analysis Instruments
Chelmsford, MA USA
Quality Management System
Registered to ISO 9001

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