Thermo Scientific Orion pHR Process ROSS Electrode

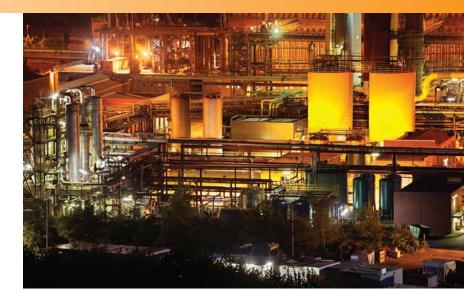
High performance, reliability and longevity for a variety of in-process pH measurements

The Thermo Scientific[™] Orion[™] pHR
Process ROSS[™] electrode is designed
to provide fast and accurate pH
measurements in a variety of samples.
The double junction design has a
replaceable salt bridge that enhances
the longevity of your electrode,
eliminating frequent electrode
replacement. A periodic change of
salt bridge and electrolyte ensures
performance to a "like-new" electrode.



Applications:

- Wastewater Treatment
- Industrial Water Treatment
- Drinking Water Treatment



The Orion pHR Process ROSS electrode offers drift-free measurement, increasing long-term accuracy and stability for on-line pH measurements. The minimal maintenance requirements and long-term product stability provide very low cost of ownership and adds to your plant's bottom line.

The Orion pHR Process ROSS electrode utilizes renowned ROSS electrode chemistry which provides highly accurate measurements and rapid response between temperature extremes.

Key Features

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

- pH signal transmission up to 3,000 ft.
- Four models: 3 with pre-amp, 1 without pre-amp
- Rugged PEEK® material on body and salt bridge

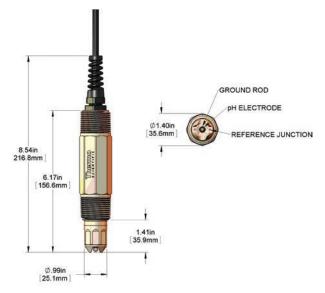
Advantages

- Field-proven ROSS drift-free reference system provides longer lifetime
- Consistent repeatability in high usability type applications
- Double junction design prevents contamination
- Exceptional pH response to extreme temperature changes
- Optimum stability and accuracy in harsh operating environments



	Product Specifications	
Measurement System Performance		
Range	0-14 pH	
Resolution	0.01 pH	
Accuracy	0.1 pH	
Minimum Conductivity	\geq 5 μ S/cm	
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	
Temperature Compensation	Yes	
Operational Enviro	nment	
Temperature Range	-5°C to 100° C (23°F-212°F)	
Pressure Range	0-690 KPa (0-100 psig)	
Temperature Element	PT1000	
Physical Construct	ion	
Sensor	Low temperature, pure water, high temperature pH glass	
Sensor Type	Combination or Differential	
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.	
Cable	Integral (1-100 meters)	
Pre-amp	Available	
Range	Up to 100 meters	

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Product Ordering Information		
Part No.	Description	
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	
Salt Bridge Replacements		
SBPHR-1	PEEK protected for pHR ROSS, Quantity 1	
SBPHR-3	PEEK protected for pHR 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 mL Bottle	
Mounting Hard	ware	
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	
JB0XX01	Junction Box For Extension Cables	
APECxx	Extension cable, xx=ft Diameter	



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