



## **Electrode SH36A9E115**

URL:<https://www.sxplc.com/electrode-sh36a9e115>

### **Product data sheet**

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

### **Thermo Scientific™ Orion™ pH Process ROSS™ Electrode**

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.

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

### **Applications**

- Wastewater treatment
- Industrial water treatment
- Drinking water treatment

### **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
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Product specifications		Ordering information	
Orion pH/Process ROSS Electrode		Orion pH/Process ROSS Electrode	
Measurement system performance	Range: 0-14 pH	Description	Cat. No.
	Resolution: 0.01 pH	Electrodes	
	Accuracy: 0.1 pH	pHR ROSS pH with 15' (4.57 m) cable	SH36A9E115
	Minimum Conductivity: > 5 µS/cm	pHR ROSS pH with pre-amplifier, 10' (3.05 m) cable	SH36A9E210
	pH Response Time: 95% in 30 seconds for a pH change of ±3	pHR ROSS pH with pre-amplifier, 20' (6.10 m) cable	SH36A9E220
	Temperature Response: 90% in 2 minutes for a 10°C temperature change	pHR ROSS pH with pre-amplifier, 30' (9.14 m) cable	SH36A9E230
	Precision: 0.05 pH-0.5°C	Salt bridge replacements	
	Temperature Compensation: Yes	PEEK protected for pHR ROSS, qty 1	SBPHR-1
	Temperature range: -5°C to 100°C (23°F-212°F)	PEEK protected for pHR ROSS, qty 3	SBPHR-3
	Pressure range: 0-690 KPa (0-100 psig)	pH solutions	
Operational equipment	Temperature Element: PT1000	pHR ROSS cell solution, 60 mL	RCPHR-60
	Sensor: Low temperature, pure water, high temperature, pH glass	4.01 pH buffer, 475 mL bottle	910104
	Sensor type: Combination or differential	7.00 pH buffer, 475 mL bottle	910107
Physical Construction	Ground Rod: Titanium	10.01 pH buffer, 475 mL bottle	910110
	O-rings: Viton™	Mounting hardware	
	Sensor material: PEEK	1 inch tee mounting, CPVC	MH3022
	Length: 6.17" (156.6 mm)	1 inch tee mounting, 316 SS	MH3011
	Diameter: 1.40" (35.9 mm)	1.5 inch union mounting, CPVC	MH3042
	Weight: 0.5 lbs.	1.5 inch union mounting, 316 SS	MH3041
	Cable: Integral (1-100 meters)	1.5 inch ball valve, CPVC, low pressure	MH1112
	Pre-amp: Available	1.5 inch ball valve, 316 SS, low pressure	MH1111
	Range: Up to 100 meters	1.5 inch ball valve, CPVC, high pressure	MH1122
		1.5 inch ball valve, 316 SS, high pressure	MH1121
		Junction box for extension cables	JBOX001
		Extension cable, xx-ft diameter	APECxx

