## Signet 2750-7 pH Electronics





The Signet 2750-7 pH Electronics conditions the output signal from the Signet 2724 pH Electrode and provides a Digital (S<sup>3</sup>L) signal to the Signet 8630, 8900, and 9900 instruments.

Signet's patented DryLoc® connector provides a quick and secure connection to the sensor. Gold-plated contacts and an O-ring seal ensure a waterproof and reliable interconnect to the sensor.

Sensor maintenance, replacement and troubleshooting has never been easier. The DryLoc electronics can be separated from the sensor, which allows the user to detect a faulty sensor, electronics or cable assembly



#### **Features**

- Amplifies the output from the pH electrode and converts it to a reliable digital (S<sup>3</sup>L) signal.
- Patented DryLoc® connector provides a quick and secure connection to the sensor
- Waterproof and reliable interconnect to the sensor
- Easy sensor replacement without running new cable
- Easy sensor removal for servicing







### **Applications**

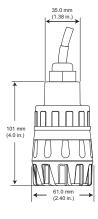
- Water and Wastewater Treatment
- Effluent Monitoring
- Surface Water
- HVAC Applications (cooling water)
- Sanitization Systems
- Food and Beverage
- Pool and Spa Control
- Aquatic Animal Life Support Systems
- Water Parks

U.S. Patent No: 6,666,701

## **Specifications**

General			
Compatibility	Signet Dryl oc pH and ORP Floot	rodes 2724-2726 2764-2767 2774-2777 and 2754-2757 Wat-Tan	
Mounting	Signet DryLoc pH and ORP Electrodes, 2724-2726, 2764-2767 2774-2777 and 2756-2757 Wet-Tap  DryLoc connection		
Materials	Valox® (PBT)		
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Cable	4.6 m (15 ft) 3 conductor shielded	d, 22 AWG	
Performance			
Electronics Accuracy	±0.03 pH @ 25 °C, ±2 mV ORP @ 25 °C		
Operational Range	0.0 to 14.0 pH, -1000 mV to + 2000 mV ORP		
Resolution	0.02 pH, 1 mV 0RP		
Response Time	< 6 s for 95% of change		
Electrical			
Input Specifications			
Input Impedance	>10 <sup>11</sup> Ω		
Temperature Drift	±0.002 pH per °C, ±0.1 mV ORP per °C		
Input Resolution	0.02 pH, 0.3 °C, 1.0 mV ORP		
Output Specifications			
Digital (S³L)	Serial ASCII, TTL level 9600 bps		
Max. Cable Length	30 m (100 ft)		
Power Supply Input	Digital (S³L) mode	$5 \text{ to } 6.5 \text{ V} \pm 10\%$ , 3 mA max.	
Environmental			
Operating Temperature	0 °C to 85 °C	32 °F to 185 °F	
Storage Temperature	-20 °C to 85 °C	-4 °F to 185 °F	
Relative Humidity	0 to 95%, non-condensing		
Enclosure	NEMA 4X/IP65		
Shipping Weight			
	0.64 kg	1.41 lb	
Standards and Approvals			
	CE		
	RoHS compliant		
	China RoHS		
	Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management		
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### **Dimensions**



# **Ordering Information**

Mfr. Part No.	Code	Description	
3-2750-7	159 001 671	pH electronics, Digital (S³L), 4.6 m (15 ft) cable	

<sup>\*</sup> Valox® is a registered trademark of SABIC Innovative Plastics

#### 3-2750-7.099 Rev D (10/11)