



The Signet 2750-7 pH Electronics conditions the output signal from the Signet 2724 pH Electrode and provides a Digital (S³L) signal to the Signet 8630, 8900, and 9900 instruments.

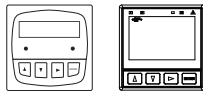
Signet's patented DryLoc[®] connector provides a quick and secure connection to the sensor. Gold plated contacts and an O-ring seal ensure a waterproof and reliable interconnect to the sensor.

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.

System Overview

Panel Mount

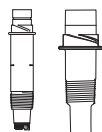
Signet Instrument
8630-3P, 8900, 9900



Signet 2750-7 pH Electronics



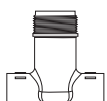
Signet Electrodes
2724-2726
2734-2736
2764-2767
2774-2777



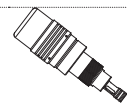
Signet Electrodes
2756WT
2756WTP
2757WT
2757WTP



Signet Fitting
3610



Signet Wet-Tap
3719



All sold separately

Features

- Amplifies the output from the pH electrode and converts it to a reliable digital (S³L) 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

Specifications

General

Compatibility	Signet DryLoc pH and ORP Electrodes, 2724-2726, 2734-2736, 2764-2767 2774-2777 and 2756-2757 Wet-Tap
Mounting	DryLoc connection
Materials	Valox® (PBT)
Cable	4.6 m (15 ft) 3 conductor shielded, 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 ORP
Response Time	< 6 s for 95% of change

Electrical

Input Specifications

Input Impedance	>10 ¹¹ 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 (S ³ L)	Serial ASCII, TTL level 9600 bps	
Maximum Cable Length	30 m (100 ft)	
Power Supply Input	Digital (S ³ L) mode	5 to 6.5 V ±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	

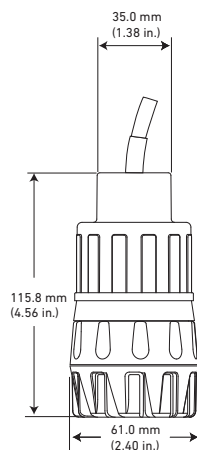
Shipping Weight

0.64 kg	1.41 lb
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Standards and Approvals

CE, FCC
RoHS compliant, China RoHS
Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety

Dimensions



Ordering Information

Mfr. Part No.	Code	Description
3-2750-7	159 001 671	pH and ORP Electronics with 3/4" NPT Female Thread

Valox® is a registered trademark of SABIC Innovative Plastics

3-2750-7.099 Rev F (03/20)

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