



The Signet 2650 Amperometric Electronics provide the polarization voltage and signal conditioning required by all Signet Amperometric Sensors. The 2650 Amperometric Electronics also relays important sensor information that is stored on a memory chip inside the sensor to be displayed on the 3-8630-3P transmitter. Information includes factory calibration data, service life, calibration information and more.

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




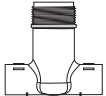
- Conditions the signal from the 2630 sensor and provides sensor stored data to the Chlorine transmitter
- Patented DryLoc® connector provides a quick and secure connection to the sensor
- Waterproof and reliable interconnect to the sensor
- Easy sensor replacement without running new cable
- Easy sensor removal for servicing



Applications

Residual Chlorine Monitoring:

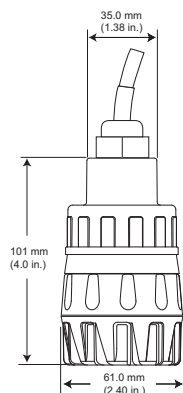
- Water Distribution
- Ground Water
- Surface Water
- HVAC Applications (cooling water)
- Gray Water Dechlorination
- Food and Beverage
- RO Membrane Protection
- Swimming Pools
- Aquariums
- Water Parks

System Overview	Panel Mount
	Signet Transmitter 8630-3P 
	Signet 2650-7 Amperometric Electronics 
	Signet Electrode 2630-2 
	Signet Fitting 3610 
	All sold separately

Specifications

General		
Compatibility	All Signet Amperometric DryLoc Sensors Signet 3-8630-3P Chlorine Transmitter	
Mounting	DryLoc connection	
Materials	Valox® (PBT)	
Cable	4.6 m (15 ft) 3 conductor shielded, 22 AWG	
Performance		
Electronics Accuracy	< 5 nA or 1% of reading, whichever is greater @ 25 °C over full input range	
Temperature	±1.0 °C (PT1000) over full operation range (when calibrated at ambient temperature)	
Update Rate	500 ms	
Operational Range	±450 mV	
Resolution	0.1 nA	
Electrical		
Input Specifications		
Sensor	Raw signal	
Temperature	PT1000 RTD	
Output Specifications		
Digital (S ³ L)	Serial ASCII, TTL level 9600 bps	
Max. 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
Standards and Approvals		
	CE	
	RoHS compliant	
	China RoHS	
	Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management	

Dimensions



Ordering Information

Mfr. Part No.	Code	Description
3-2650-7	159 001 670	Amperometric in-line sensor electronics, Digital (S ³ L), 4.6 m (15 ft) cable

* Valox® is a registered trademark of SABIC Innovative Plastics

3-2650.099 Rev D (10/11)

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