

# Signet 2650 DryLoc® Amperometric Electronics

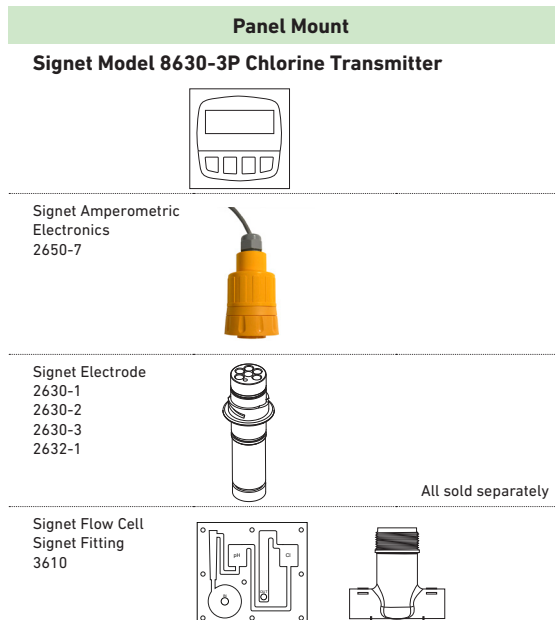


The Signet 2650 Amperometric Electronics provide the polarization voltage and signal conditioning required by all Signet Amperometric Sensors. The 2650 Amperometric Electronics also relays important sensor information that is stored on a memory chip inside the sensor to be displayed on the 3-8630-3P 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.

## System Overview



## 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

## Specifications

### General

Compatibility	All Signet Amperometric DryLoc Sensors
	Signet 3-8630-3P Chlorine Transmitter
	All 3-4630 Chlorine panel assemblies
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 <sup>3</sup> L)	Serial ASCII, TTL level 9600 bps	
Maximum Cable Length	30 m (100 ft)	
Power Supply Input	Digital (S <sup>3</sup> 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	

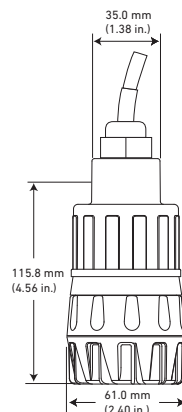
### Shipping Weight

	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
3-2650-7	159 001 670	Amperometric In-line Sensor Electronics, digital (S <sup>3</sup> L), 4.6 m (15 ft) cable

Valox® is a registered trademark of SABIC Innovative Plastics

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