

Signet 2650 DryLoc® Amperometric Electronics



Features

- Passes the data stored in sensor 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

Description

The Signet 2650 Amperometric Electronics provide the polarization voltage and signal conditioning required by all Signet Amperometric Sensors. The 2760 Amperometric Electronics also relays important sensor information that is stored on a memory chip inside the sensor and 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.

Applications

Residual Chlorine Monitoring:

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

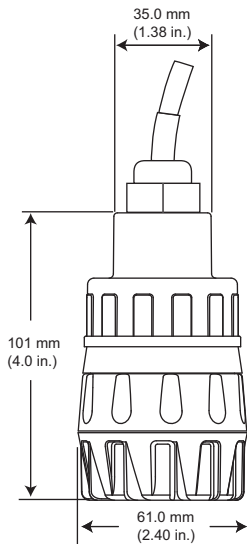
System Overview

Panel Mount Signet Transmitter (sold separately) 8630-3P	
Signet 2650 Chlorine Amperometric Electronics (sold separately)	
Signet 2630 Chlorine Electrode (sold separately)	
Signet 3610 Fitting (sold separately)	



Dimensions

3-2650-7



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

Electrical (continued)

Output Specifications:

- Digital (S³L): Serial ASCII,
TTL level 9600 bps
 - Max. Cable Length: 30 m (100 ft)
- Power Supply Input:
- Digital (S³L) mode:
5 to 6.5 V ± 10%, 3 mA max

Environmental

Storage Temperature:

-20 °C to 85 °C (-4 °F to 185 °F)

Operating Temperature:

0 °C to 85 °C (32 °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
- Manufactured under ISO 9001
for Quality and ISO 14001 for
Environmental Management
- RoHS compliant
- China RoHS

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 C (10/10)

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