



The Signet 2630 Amperometric Chlorine electrode is designed to measure free chlorine in fresh water treatment applications. The electrode is available with a measurement range of 0.02 to 2 ppm, 0.05 to 5 ppm or 0.1 to 20 ppm. This electrode requires the Signet 2650 Amperometric Electronics module to communicate with the Signet 8630-3P Chlorine Transmitter.

Utilizing smart-sensor technology, this electrode has a unique embedded memory chip and can communicate a wide variety of information to the Signet 2650 electronics and Signet 8630-3P Transmitter.

Displayed information includes electrode type, factory calibration data, service time, chlorine range, high and low pH (with optional Signet pH electrode), temperature values and more.

Signet's patented DryLoc® connector provides quick assembly and a secure connection. Gold-plated contacts and an O-ring seal ensure a waterproof and reliable interconnect to the Signet 2650 Amperometric Electronics.

The Signet 2630 Amperometric Chlorine Electrode has an integrated temperature element for automatic temperature compensation.

Features

- Embedded memory chip accessible via the Signet 8630 transmitter
- Quick assembly with Signet's patented DryLoc® connector
- Integrated temperature element for automatic temperature compensation
- Separate drive electronics (Signet 2650), for easy electrode replacement without running new cable



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

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



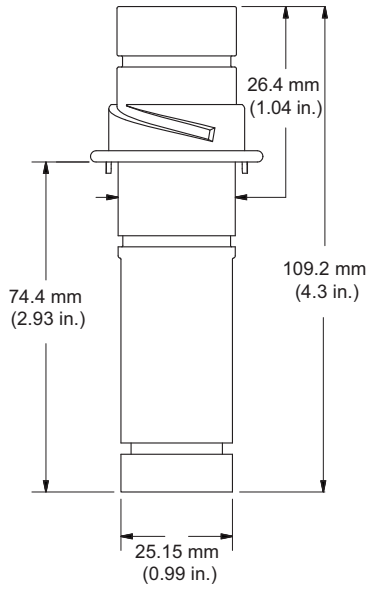
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Specifications

General			
Polarization Source	Signet 2650 Amperometric Electronics		
Compatibility	3-3610-1 Flow Cell, Clear PVC 1/2" Tee		
	3-3610-2 Flow Cell, Clear PVC 1/2" Tee, Barb Conn		
	3-4630.392 Acrylic flow cell complete with all components and connections		
Mounting	Signet DryLoc connection		
Materials	CPVC		
Free Chlorine			
	Membrane Material	PTFE	
	O-ring Material	FPM	
	Working Electrode	Gold	
	Counter Reference Electrode	Silver halide	
Wetted Material			
	PVC, PTFE, FPM		
Performance			
Electrode			
	Repeatability	±0.08 ppm (mg/l) or 3% of selected range whichever is less	
	Slope	10 to 60 nA/ppm (mg/l)	
	Response Time, T90	< 2 minutes	
System (including electronics and instrument)			
	Accuracy	< ±3% of electrode signal after calibration	
	Resolution	±0.5% of electrode range	
Sensor Conditioning			
	New, first start-up	4 hours maximum before calibration	
	Subsequent start-ups	2 hours maximum	
Temperature Element	PT1000, Class B		
Operational Ranges and Limits			
	Free Chlorine Range	0.02 to 2 ppm (mg/l)	0.05 to 5 ppm (mg/l)
	Free Chlorine pH Operating Range	5.0 to 8.5 pH	
Maximum Media Temperature	0 °C to 45 °C	32 °F to 113 °F	
Maximum Operating Pressure			
Membrane	0.48 bar @ 25 °C (7 psi @ 77 °F)		
Flow Velocity Across Membrane Surface			
	Minimum	15 cm/s (0.49 ft/s)	
	Maximum	30 cm/s (0.98 ft/s)	
Interferences	ClO ₂ , ozone, bromine		
Chemical Compatibility	< 50% ethanol/water, < 50% glycerol/water		
Environmental			
System Temperature	-10 °C to 60 °C	-4 °F to 140 °F	
Storage Temperature	-10 °C to 60 °C	-4 °F to 140 °F	
Relative Humidity	0 to 95% indoor/outdoor non-condensing to rated ambient		
Shipping Weight			
	0.14 kg	0.30 lb	
Standards and Approvals			
	CE, FCC		
	RoHS compliant, China RoHS		
	Manufactured under ISO 9001 for Quality		

Dimensions

3-2630-2



System Overview	Panel Mount	
	Signet Instrument 8630-3P	
	Signet Amperometric Electronics 2650-7	
	Signet 2632-1 Chlorine Dioxide Electrode	
Signet Flow Cell Signet Fitting 3610		All sold separately

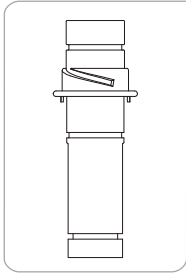
Application Tips

- The sensors should not be used in water containing surfactants, oils, organic chlorine or stabilizers such as cyanuric acid.

Ordering Notes

- The sensor must have a stable and constant flow of water past its membrane for accurate free chlorine measurement. Typical flow rate should be 30.24 - 45.36 lph (8 - 12 gph).

Ordering Information



Mfr. Part No.	Code	Description
3-2630-1	159 001 746	Free Chlorine electrode, 0 to 2 ppm (mg/l)
3-2630-2	159 001 662	Free Chlorine electrode, 0 to 5 ppm (mg/l)
3-2630-3	159 001 747	Free Chlorine electrode, 0 to 20 ppm (mg/l)

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
3-2630.391	159 001 674	Electrolyte kit, 30 ml bottle with syringe and needle
3-2630.392	159 001 675	Free Chlorine replacement PVDF membrane (1) (sensors sold prior to Nov 1, 2012)
3-2630.394	159 310 164	Free Chlorine Replacement PTFE membrane (1) (sensors sold after Nov 1, 2012)
3-2630.396	159 001 676	Free Chlorine maintenance kit - (2) electrolyte and (2) PVDF membranes, polishing papers (sensors sold prior to Nov 1, 2012)
3-2630.398	159 310 166	Free Chlorine Sensor maintenance kit - (2) electrolyte and (2) PTFE membranes, (2) silicone bands, polishing papers (sensors sold after Nov 1, 2012)
3-3610-1	159 001 683	Flow Cell, Clear PVC 1/2" Tee
3-3610-2	159 001 684	Flow Cell, Clear PVC 1/2" Tee, Barb Conn
3-2600.510	159 500 422	Silicone band, chlorine sensor