Signet 2632 Amperometric Chlorine Dioxide Electrode + C+



The Signet 2632 Amperometric Chlorine Dioxide electrode is designed to measure chlorine dioxide residual in water treatment applications. The electrode is available with a measurement range of 0 to 2 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 via the Signet 2650 electronics to the Signet 8630-3P Transmitter. The 8630 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 connection to the Signet 2650 Amperometric Electronics.

The Signet 2632 Amperometric Chlorine Dioxide 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:

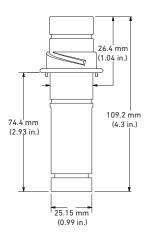
- **Cooling Towers**
- **Ground Water**
- Fruit and Vegetable Washing
- **Water Distribution**
- **Wastewater Odor Control**
- **Poultry and Meat Processing**
- **UPW Treatment**
- **Hospital and Healthcare Facilities**

Specifications

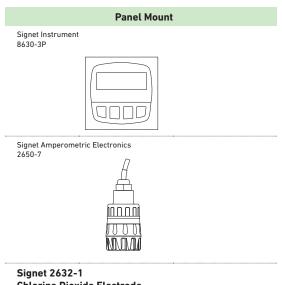
General			
Polarization Source	Signet 2650 Amperometric Electronics		
Compatible Flow Cells	3-3610-1 Flow Cell, Clear PVC 1/2" Tee		
	3-3610-2 Flow Cell, Clear P\		
	3-4630.392 Acrylic flow cell	complete with all components and connections	
Mounting	Signet DryLoc connection		
Materials	CPVC		
Chlorine Dioxide			
Membrane Material	PTFE		
O-ring Material	FKM		
Working Electrode	Gold		
Counter Reference Electrode	Silver halide		
Wetted Material			
	PVC, PTFE, FKM, Nylon, Silic	one	
Performance			
Electrode			
Repeatability	±0.08 ppm (mg/l) or 3% of selected range, whichever is less		
Slope	40 to 200 nA/ppm (mg/l) @ 17 °C		
Response Time, T90	< 2 minutes		
System (including electronics and in	nstrument)		
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		
Operational Ranges and Limits			
Chlorine Dioxide Range	0.02 to 2 ppm (mg/l)		
pH Operating Range	4.0 to 11.0 pH		
Operating 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 Su	rface		
Minimum	15 cm/s (0.49 ft/s)		
Maximum	30 cm/s (0.98 ft/s)		
Chemical Compatibility	< 50% ethanol/water, < 50% glycerol/water		
Environmental			
Operating Temperature	0 °C to 45 °C	32 °F to 113 °F	
Storage Temperature	-10 °C to 60 °C	-4 °F to 140 °F	
Relative Humidity	0 to 95% indoor/outdoor nor	n-condensing to rated ambient	
Shipping Weight			
	0.14 kg	0.30 lb	
Standards and Approvals		'	
	CE, FCC		
	RoHS compliant, China RoHS		
	Manufactured under ISO 900		

Dimensions

3-2632-1



System Overview



Chlorine Dioxide Electrode



All sold separately

Signet Flow Cell Signet Fitting 3610





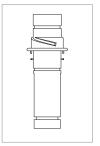
Application Tips

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

Ordering Notes

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

Ordering Information



Mfr. Part No.	Code	Description
3-2632-1	159 001 767	Chlorine Dioxide Electrode, 0.02 to 2 ppm (mg/l)
	'	

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
3-2632.391	159 310 160	Chlorine Dioxide Electrolyte, 30 mL (2) bottles
3-2632.398	159 310 165	Chlorine Dioxide Maintenance Kit - (2) electrolyte, (2) PTFE membranes, (2) silicone bands, and polishing paper
3-2630.394	159 310 164	Free Chlorine and Chlorine Dioxide replacement PTFE membrane (1)