

## Type 2632 Amperometric Chlorine Dioxide Electrode



### Product description

The type 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 0.02 to 2 ppm. This electrode requires the 2650 Amperometric Electronics to output a digital (S<sup>3</sup>L) signal to the 9950-3/-4 Chlorine Controller.

Utilizing smart-sensor technology, this electrode has a unique embedded memory chip and can communicate a wide variety of information to the 9950-3/-4 Chlorine Controller. The 9950-3/-4 can display the electrodes stored information which includes the serial number, electrode type, service time in hours, chlorine range, high and low temperatures.

The patented DryLoc® connector with its Gold plated contacts and O-ring seal ensure a waterproof and reliable interconnect to the 2650 electronics and allows quick assembly during system start up, while providing a easy way to service or replace the Amperometric electrode.

### Features

- Embedded memory chip accessible via the type 9950-3/-4 Chlorine Controller
- Quick assembly with the patented DryLoc® connector
- Integrated temperature element for automatic temperature compensation
- Separate drive electronics (2650 Electronics), for easy servicing and electrode replacement



### Applications

#### Residual Chlorine Monitoring:

- Water Distribution
- Ground Water
- Surface Water
- HVAC Applications (cooling water)
- Food and Beverage

\*NOTE: The 9950-3/-4 Chlorine Controller is not compatible with the 3-9950-1 / -2 /-10 /-11 controller

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

# Datasheet

## Technical Data

### General

Polarization Source	2650 Amperometric Electronics
Compatibility	3-4630.392 (159 001 690) 3-3610-1 (159 001 683) 3-3610-2 (159 001 684)
Mounting	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, Silicone
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### 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 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

#### Operational Ranges and Limits

Free Chlorine Range	0.02 to 2 ppm (mg/l)
Free Chlorine pH Operating	4.0 to 11.0 pH
Maximum Media Temperature	5 °C to 45 °C      41 °F to 113 °F

### Maximum Operating Pressure

Membrane	0.48 bar @ 25 °C (7 psi @ 77 °F)
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### Flow Velocity Across Membrane Surface

Minimum	15 cm/s (0.49 ft/s)
Maximum	30 cm/s (0.98 ft/s)
Sensitivity	Free Chlorine, ozone
Chemical Compatibility	< 50% ethanol/water, < 50% glycerol/water

### Environmental

System Temperature	-10 °C to 60 °C	14 °F to 140 °F
Storage Temperature	-10 °C to 60 °C	14 °F to 140 °F
Relative Humidity	0 to 95% indoor/outdoor non-condensing to rated ambient	

### Shipping Weight

0.14 kg	0.30 lb
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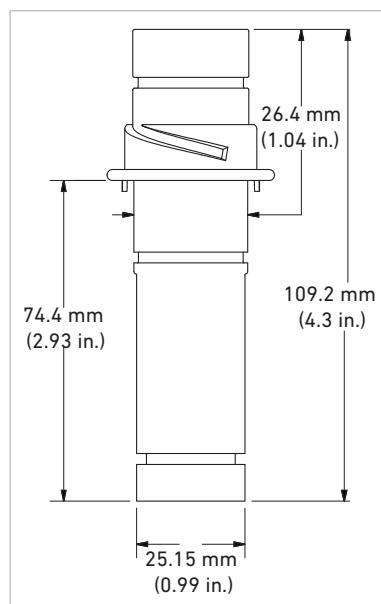
### Standards and Approvals

UKCA, CE, FCC
RoHS compliant, China RoHS
Manufactured under ISO 9001 for Quality

# Datasheet

## Dimensions

3-2632-1



## System Overview

### Panel Mount

GF Instrument  
9950-3/-4 Chlorine  
Controller



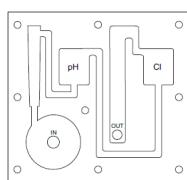
GF Amperometric  
Electronics  
2650-7



Type 2632-1  
Chlorine Dioxide  
Electrode



GF Flow Cell



All sold separately

## Application Tips

Amperometric sensors require the water to be chlorinated at ALL times.

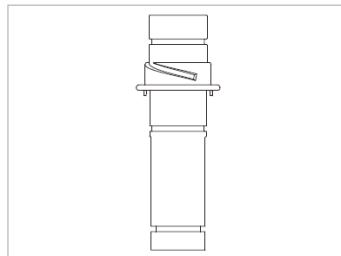
The sensors should not be used in water containing surfactants, oils, organic chlorine or stabilizers such as cyanuric acid.

# Ordering Information

## 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).

Mfr. Part	Code	Description
3-2632-1	159 001 767	Chlorine Dioxide Electrode, 0 to 2 ppm (mg/l)



## Accessories

Mfr. Part	Code	Description
3-2632.398	159 310 165	Chlorine Dioxide Sensor Maintenance Kit - (2) electrolyte and (2) PTFE membranes, (2) silicone bands, polishing papers
3-2632.391	159 310 160	Chlorine Dioxide Electrolyte Solution, 30 ml (2) bottles with syringe and needle
3-2630.394	159 310 164	Free Chlorine and Chlorine Dioxide replacement PTFE membrane (1)
3-2600.510	159 500 422	Silicone Band, Chlorine Electrode

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