

## Type 2650 DryLoc® Amperometric Electronics



### Product description

The type 2650 Amperometric Electronics provide the polarization voltage and signal conditioning required by all GF 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 3-9950-3/-4 Chlorine Controller. Information includes factory calibration data, service life, calibration information and more.

The 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.

### Features

- Provides polarization voltage and conditions the signal from the 2630 and 2632 electrodes
- Provides access to the Amperometric electrode's stored data for display on the 9950-3/-4 Chlorine Controller
- 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)
- Food and Beverage
- Water Park

\* NOTE: The 9950-X Chlorine Controller is not compatible with the standard 9950-3/-4 controller.

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

## Technical Details

### General

Compatibility	All GF Amperometric DryLoc Sensors 9950-3 DC Chlorine Controller 9950-4 AC Chlorine Controller All 463X Chlorine panel assemblies
Mounting	DryLoc connection
Materials	PC+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 nA
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
Max. 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 (no electrode connected)	
Enclosure	NEMA 4X/IP65 with electrode connected	

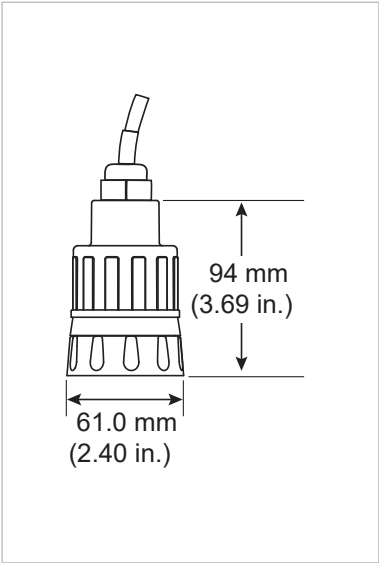
### Shipping Weight

	0.64 kg	1.41 lb
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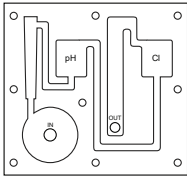
### Standards and Approvals

UKCA, CE, FCC
RoHS compliant, China RoHS
Manufactured under ISO 9001, ISO 14001 and ISO 45001

Dimensions



System Overview

Panel Mount	
Type 9950-3/4	
GF Amperometric Electronics 2650-7	
GF Electrode 2630-1 2630-2 2630-3 2632-1	
GF Flow Cell	
All sold separately	

Ordering Information

Mfr. Part	No. Code	Description
3-2650-7	159 001 670	Amperometric Sensor

