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

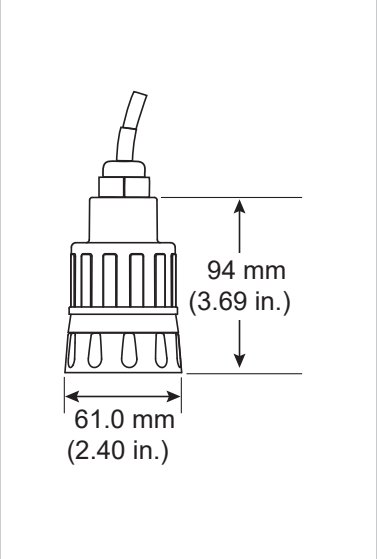
Electrical		
Input Specifications		
Sensor	Raw Signal	
Temperature	Pt1000 RTD	
Output Specifications		
Digital (S^3L)	Serial ASCII, TTL level 9600 bps	
Max. Cable Length	30 m (100 ft)	
Power Supply Input	Digital (S^3L) mode	5 to 6.5 V ± 10%, 3 mA max.

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	

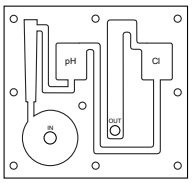
Shipping Weight		
	0.64 kg	1.41 lb

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

3-2650.099 Rev 0
06/2024-A

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