Type 2751-7 pH Electronics

Product description

When used with the type 9950-3/-4 Chlorine Controller, the type 2751-7 pH/ORP Smart Sensor Electronics featuring the DryLoc® connector is the solution for field-free calibration, broken glass and high impedance detection, alerting the operator to probe failure or maintenance needs.

The pH/ORP Smart Sensor Electronics will allow for calibration of electrodes in a laboratory setting and installation of pre-calibrated probes in the field, reducing system downtime. The data stream also includes important information regarding the performance and life span of the pH electrode. The 9950-3/-4 Chlorine Controller provides the operator with a calculated slope of the electrode (electrode health) and can detect when the electrode requires cleaning.

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

- Amplifies the output from the pH electrode and converts it to a reliable (S^3L) signal
- 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

- Water Distribution
- Ground Water
- Surface Water
- HVAC Application (cooling water)
- Food and Beverage
- Swimming Pools
- Water Parks

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

Technical Details

General		
Compatibility	DryLoc pH and ORP Electrodes, 2724 and 2724	
Mounting	DryLoc connection	
Materials	PC+PBT	
Cable	4.6 m (15 ft) 3 conductor shielded, 22 AWG	

Performance		
Electronics Accurracy	±0.02 pH @ 25 °C	
Operational Range	-1.0 to 15.0 pH	
Response Time	< 6 s for 95% of change (includes electrode response)	

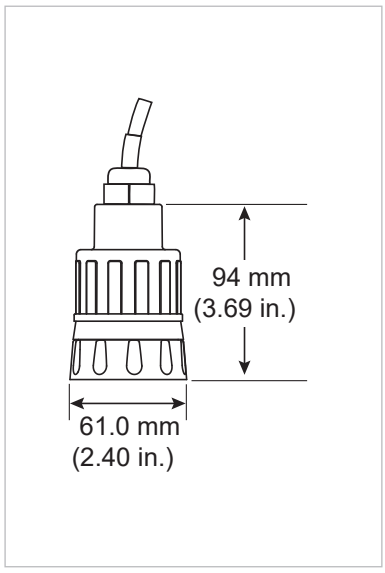
Electrical		
Input Specifications		
Input Impedance	> 10^{11} Ω	
Temperature Drift	±0.002 pH per °C	
Input Resolution	0.02 pH, 0.3 °C	
Output Specifications		
Digital (S^3L)	Serial ASCII, TTL level 9'600 bps	
Max. Cable Length	30 m (100 ft)	

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	
Enclosure	NEMA 4XI/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

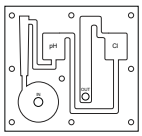
GF Instrument
9950-3/-4

Type 2751-7
pH Electronics

GF Electrodes
2724

All sold separately

GF Flow Cell 4630



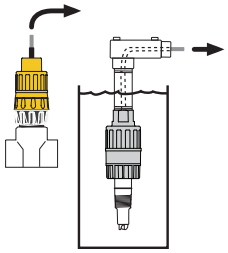
All sold separately

Ordering Information

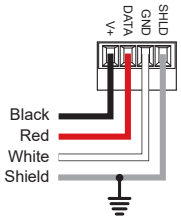
Mfr. Part No.	Code	Description
3-2751-7	159 001 957	pH Electronics

Wiring information

2751 Digital (S³L) Wiring with no junction box

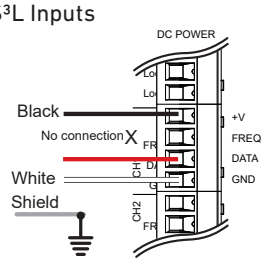


9900 S³L Inputs

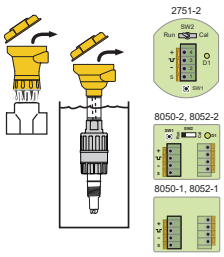


Optional Earth ground

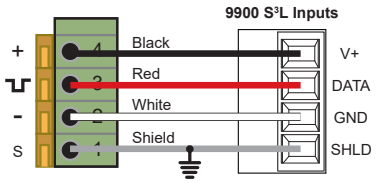
9950 S³L Inputs



2751 Digital (S³L) Wiring with junction box

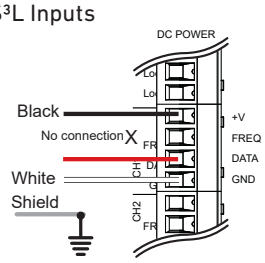


9900 S³L Inputs

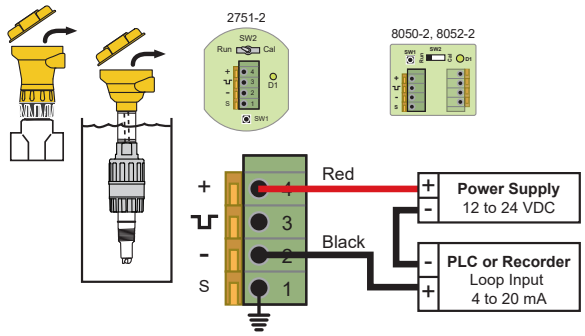


Optional Earth ground

9950 S³L Inputs



2751 4 to 20 mA Loop Wiring - Current loop, junction box with Easy Cal



Optional Earth ground

08/2025-A 3-2751-7.099 Rev F

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