

# Wiring Information: Sensors & Electrodes

## I. Flow sensor cable details and connection to instrumentation

- Most +GF+ SIGNET Flow sensors are supplied with a standard 7.6 m (25 ft.) length of cable except the 2100 Turbine, which has 4.6 m (15 ft.)
- The Vortex 7000, 7001, 7002, and the Magmeter 2550 are not supplied with cable.
- Sensors with AC sine wave outputs (515, 525, 2517) may extend cable to a maximum 60 m (200 ft.)
- Sensors with open collector outputs (2000, 2100, 2507, 2536, 2540, 2550, 7000, 7001, 7002) may extend cable to a maximum 300 m (1000 ft.)
- Maintain all cable shielding through splices or terminal connections.
- Cable should be 2 conductor twisted pair with shield, 18 to 22 AWG.
- +GF+ SIGNET Flow sensors use cable with Black, Red and Shield conductors. To facilitate wiring, most +GF+ SIGNET instruments have wiring terminals that are labeled with these same colors.

### Flow Sensor Wiring Matrix

Instrument Marking	Sine Wave Output	Sensor Wire Color	Open Collector Output	Instrument Marking
Freq. In Black	Frequency	<b>Black</b>	DC Power +	Sensor Pwr Sensor V+
Freq. In Red	Frequency	<b>Red</b>	Signal Out	Freq. In Sensor In
Iso. Gnd Shld	Ground	<b>Shield (White)</b>	DC Power -	Iso. Gnd Sensor Gnd
	515 525 2517	<b>Sensor models</b>	2000 2100 2507 2536 2540 2550 *7000/7001 7002	

\* The 7000 and 7002 have short Black, Red and White wires pre-connected from the sensor to a terminal block labeled +, - and GROUND.

See Sensor/Instrument Compatibility Matrix on page 7.

## II. Wiring Connections for Analytical Electrodes and Instruments

### S<sup>3</sup>L Connections

#### pH/ORP Wiring

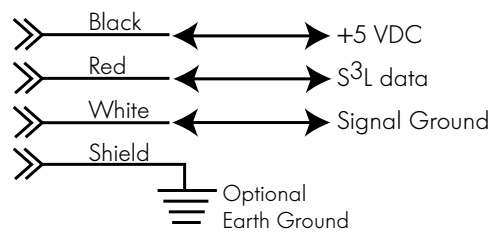
2720



Pre-amplifier

Instrument

2750/2760 Submersible version



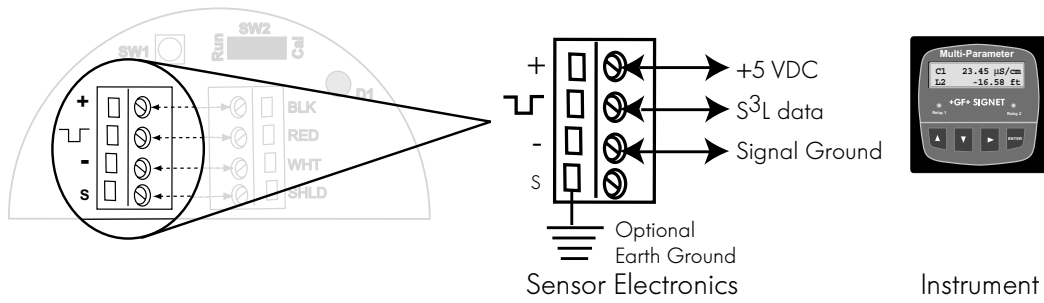
Sensor Electronics



Instrument

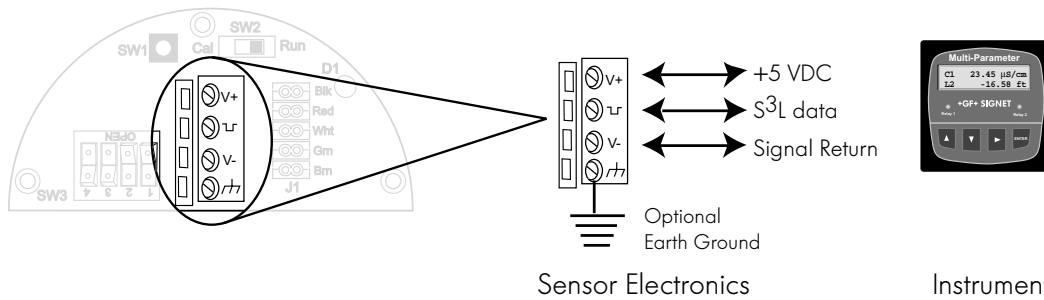
## pH/ORP Wiring continued

2750 In-Line version and 8050/8052 J-Boxes

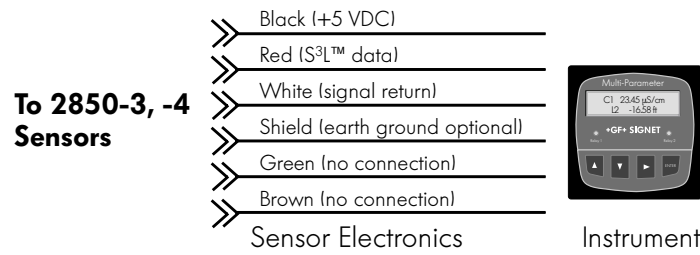


## Conductivity Wiring

2850 In-Line version and 8050/8052 J-Boxes



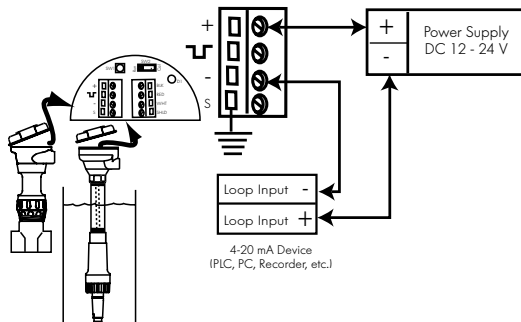
2850 Submersible version



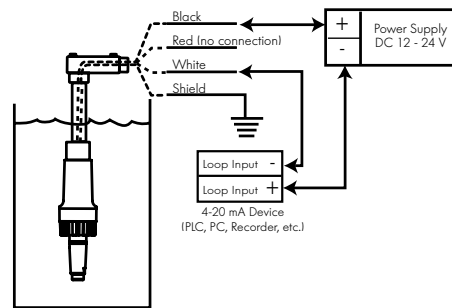
## 4 to 20mA Loop Connections

### pH/ORP Wiring

2750 with J-Box

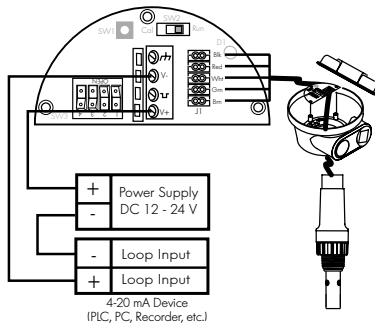


2750 without J-Box



### Conductivity Wiring

2850 with J-Box



2850 without J-Box

