



SureSite® Magnetic Liquid Level Indicator

Installation, Operation and Maintenance
Bulletin No. 177664-5

Section 5: Power Supplies

The SureSite power supply is designed to provide regulated DC input voltage when only AC voltage is available. This DC voltage can be used to supply the required input voltage to the Gems signal conditioner. Designed to accept a nominal 115 VAC or 230 VAC input (depending upon the unit ordered), the power supply's output is 50 mA at 24 VDC, nominal. The power supply has an operating temperature range of -15°C to +70°C (-5°F to +158°F) and its output is thermally and short circuit protected against damage.

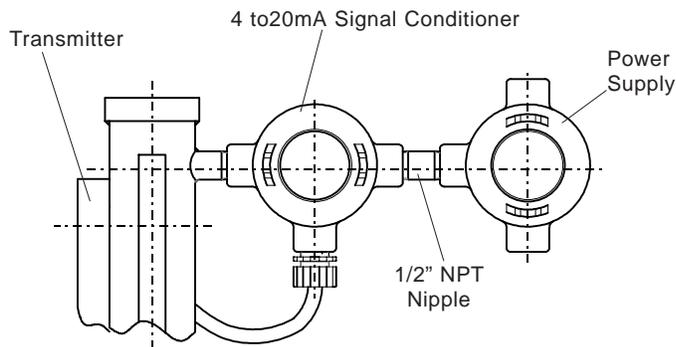
Installation

In most cases, the power supply is attached and wired to the signal conditioner at the Factory; requiring only to be wired to your AC voltage source. You may utilize any of the junction box 1/2" NPT ports to mount the unit in a fixed position.

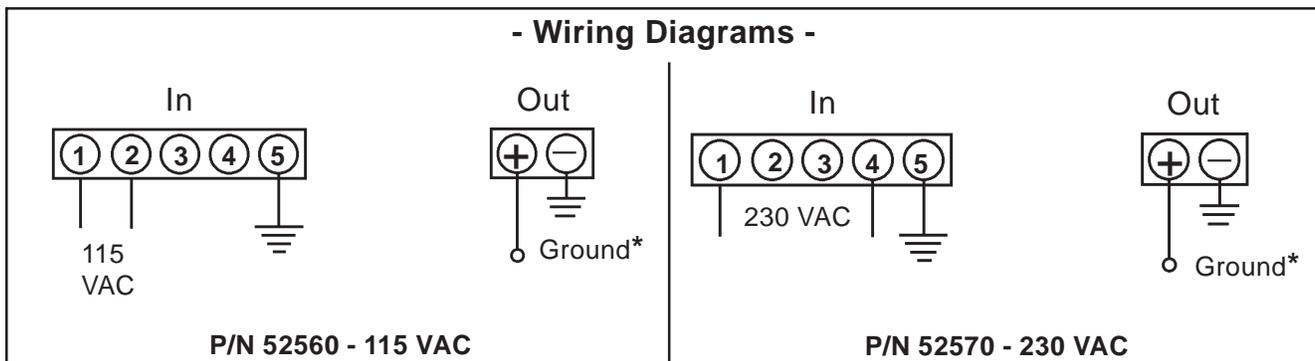
1. With the power turned off and the circuit disabled, remove the cover from the junction box housing of the power supply, and remove the thread protector from the port you have selected for wiring. (See Installation Diagram).

2. Run your voltage source wiring through the appropriate strain relief device₁ and into the junction box.

- Typical Installation -



- Wiring Diagrams -



*Negative output is not junction box grounded. A ground may be made, if required.

3. **For 115 VAC Input Only**

Connect your wiring to terminals 1 and 2 of Terminal Block-1. (See the wiring diagram for your power supply.)

4. **For 230 VAC Input Only**

Connect your wiring to terminals 1 and 4 of Terminal Block-1. (See the wiring diagram for your power supply.)

₁The Strain Relief Device is **Not** Factory-Supplied

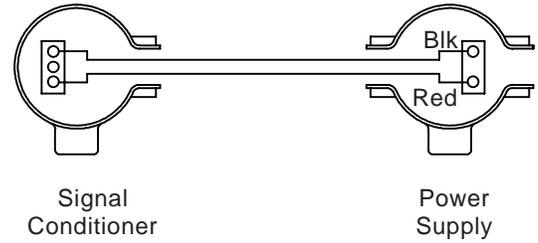
5. If your power supply is remotely mounted and has not been connected to the signal conditioner:

- a) Remove the thread protector(s) from the ports
- b) Connect the lead wires to the power supply output terminals. Run the wires through appropriate strain relief device(s)₁ and into the signal conditioner. (See the “Power Supply to Signal Conditioner” sketch.)
- c) See the appropriate signal conditioner wiring diagram for proper wiring instructions.

6. Reinstall the cover with its required O-ring on the junction box.

7. Enable the circuit and turn power on.

Power Supply to Signal Conditioner



Power Supply Troubleshooting

Condition	Possible Cause	Solution
24 VDC Output Bad	Input Voltage Not Correct	Apply the Proper Input Voltage - 115 VAC or 230 VAC
	Incorrect Wiring Between Signal Conditioner and Power Supply	Correct Wiring (See Appropriate Wiring Diagrams)
	Loose or Improperly Connected Wires at Terminal Screws	Correct Connections

₁The Strain Relief Device is **Not** Factory-Supplied

