

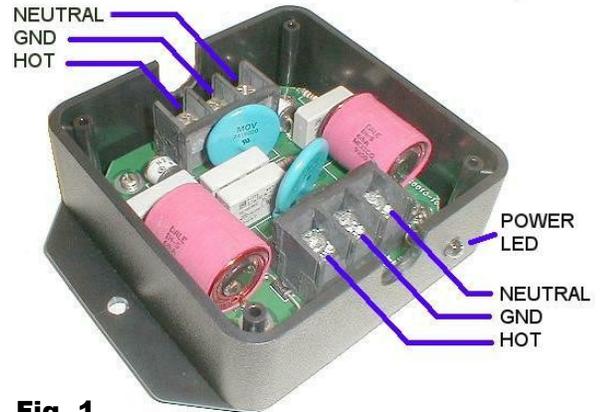
# SS1 Surge Suppressor / Power Line Filter

## 110 VAC INSTALLATION INSTRUCTIONS For SS1-ST or SS1-PL

### SS1-ST

The SS1 Surge Suppressor / Power Line Filter was designed to operate with petroleum equipment systems like Card Systems, Consoles, Tank Monitoring systems, or any other equipment which might be susceptible to power line noise. Unlike many other suppressors, the SS1 passes the AC power through a low-pass filter, which eliminates high frequency noise and power line spikes.

1. To install the SS1-ST, select a location as close as possible to the power input terminals of the unit being protected. Mount the SS1 securely.
2. Unscrew the 4 cover screws and remove the SS1 cover.
3. Attach the incoming 110VAC power wires to the terminal block opposite the power LED. The HOT, GND, and NEUTRAL terminals are labeled on the circuit board beside the terminals. Refer to Fig. 1 for terminal labels.
4. Attach the outgoing power to the terminals at the power LED side of the SS1. Refer to Fig. 1 for terminal labels. Do not connect equipment which will draw more than 7 Amps at any time.
5. For good protection against power line spikes, it is imperative that the SS1 have a good earth ground connection. The shorter and larger the ground wire, the better. The best grounding scenario would be a ground rod within 10 feet of the SS1. Be sure to connect earth ground on both the input and output terminals of the SS1.
6. Replace the cover of the SS1 and tighten the screws. Installation is now complete.



**Fig. 1**

### SS1-PL

The SS1-PL is the same unit as the SS1-ST, except that it is configured with a power cord instead of field wiring terminals. It is intended to protect equipment in an office or other location where electrical outlets are present.

To install the SS1-PL, first make sure that the outlet being used has a solid earth ground connection. Connect the protected device to the outlet side of the SS1-PL, and plug the power cord into the wall outlet. Power strips may be used to protect multiple devices, but be sure that the combination of loads do not exceed the 7 Amp rating of the SS1. Do not connect CRT computer monitors or laser printers to the SS1 outlet as they draw significant current at power-up.

| SPECIFICATIONS        |   |                  |                                 |
|-----------------------|---|------------------|---------------------------------|
| Voltage Rating:       | 120VAC Nominal,<br>135VAC Max.                    | Suppressor Type: | Series Connected                |
| Max Load Current:     | 7 Amps Continuous                                 | Capacitance      | 0.1 $\mu$ F input to input      |
| Max Discharge Current | 10,000 Amps, 20 $\mu$ S<br>Impulse<br>50 Amps RMS | Inductance       | 68 to 100 mH Input to<br>Output |
| Case Size:            | 3.3" x 3.3" x 1.25"                               |                  |                                 |

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