

## Installation Instructions

### 1. Preparation for Install of Surge Protection Device (SPD)



A. Verify the system voltage and wiring configuration is the same as the enclosed SPD by metering the panel voltage and checking it against the product label located on the SPD.

B. Review the installation area to ensure the proper space is available to properly mount and

install the SPD. The enclosure should be mounted no more than 3 feet away from the distribution panel.

C. Check that the buildings facility grounding system meets all NEC & CEC requirements as well as local codes. A low resistance ground system is essential to the proper functioning of any SPD. The soil resistance level should be no more than 25 ohms. This can be verified by performing a soil resistivity test.

### 2. Location of Surge Protection Device (SPD)

A. For service entrance applications, install the SPD at the main distribution panel on the load side after the main disconnect.

B. For feeder/sub-panel applications, install the SPD directly adjacent to the panelboard.

**IMPORTANT! Remember to keep conductor lead length to a maximum of 3ft or less.**

### 3. Wiring of Surge Protection Device (SPD)

A. TURN OFF the power to the distribution panel where the SPD will be installed.

*Optional: Install a circuit breaker to feed the SPD.*

*This will allow safety personnel to remove power from the device in order to diagnose or service the unit. In addition, the device incorporates internal fusing, UL & CSA approved, that will protect against short circuit fault conditions within the unit.*

B. Nipple mount SPD, or install either a rigid or flexible metal conduit between the SPD and the distribution panel.

C. Run wires of SPD to distribution panelboard - See wiring diagrams for details.

D. Ensure proper color codes: *Table 1.*

E. Tighten and recheck all connections.

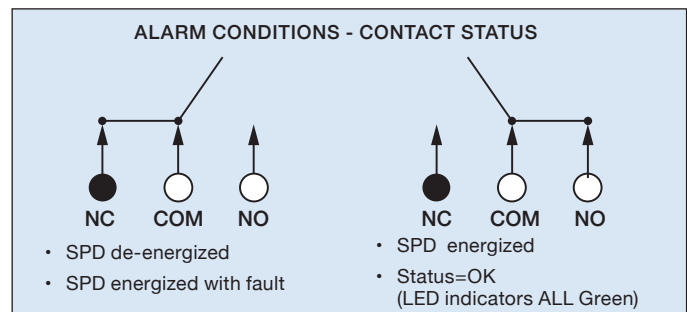
F. If remote monitoring is employed, connect the form "C" contacts to the building monitor system or independent alarm, i.e. addressable relay. Contact relays will accept up to 1A/220 VAC. The dry contact terminals are N.O. (normally open), N.C. (normally closed) and COM (common). *Diagram 1.*

NOTES: *Check wiring before applying power.*

**Table 1**

Wire	Color
Ground	Green or Green/Yellow
Neutral	White
Hot	Red, Blue, Black (Phase C, Hi-Leg)

**Diagram 1**



**Important: Risk of electrical shock. This device should only be installed by qualified personnel.**



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