Surge Suppressor Model 2261

The 2261 is an “in-line” protection device to cover the power supply and communication wiring between a remote sensor and a terminal data processing unit. It has a 3-level suppression circuit which prevents any transients appearing on an interconnecting line from damaging costly electronic interface devices. Device comes complete with two-part connectors which permits attaching and removing wires outside the box. Connectors accept 28-12awg. wires in spring loaded connectors to maintain pressure. Also comes with 18” long insulated ground strap. Optional- Mounting bracket for wider hole spacing.

Functional Description:

Power and ground line signal is limited by individual 12 volts 1500 watt tranzorbs and the 12 volt battery lines are limited by individual 18 volt 1500 watt tranzorbs to cover light and medium transients. The other four are for the protection of 5V signal lines. All six lines are additionally protected against highly powerful transients by high current “crowbar” devices responding within nanoseconds to levels above 25 volts by a full bypass to ground. This bypass will stop as the transient fades out and the minimum holding current is no longer supported. A third level of protection is provided by six self-resetting solid state fuses designed to open circuit the “bypass” after the transient subsides, preventing a bypass overload to the power supply.

Transient Protection Details:

- First Level – Tranzorbs
  - 4 communication lines: From 12 Volts +
  - 2 power supply lines: From 18 Volts +

- Second Level – SIDACtors (Crowbars)
  - All six lines: From 25 Volts +
  - Inrush dV/dt: 500 A/uS
  - Response Time: Within nanoseconds
  - Holding Current: 150 mA
  - Designed to Meet: UL 1459 & 1950 – FCC Part 68, IEC 950
- Third Level – Resettable Fuses
  - All six lines: 0.75A pass, 1.50A cut-off
  - Designed to carry transient pulses
  - Cutoff “latching current” after 2 seconds maximum