TPD surge suppressor, dissipates and removes harmful transient voltages traveling on data and signal lines reducing lockups, glitches, reprogramming issues and damage.

Rebooting, reprogramming and replacing processors, circuit boards and components can be a never-ending battle. Problems in the system are as simple as occasional glitches locking up or turning on and off equipment without user input to wide spread damage during a severe lightning storm. TPD-SLP series eliminates damaging pulses traveling in on low voltage pathways protecting automation systems, pool controls, distributed audio, sensors etc. These pulses of energy are distributed throughout the system if left unprotected. The problems will vary depending upon the size and frequency of these pulses. As microprocessors try to function, these transient pulses of energy will cause lock-ups where data can become lost or corrupted. Larger pulses will cause catastrophic failure while smaller pulses degrade the life and reliability of these systems and controls.

SPECIFICATIONS

Applications: RS232, RS422/423/485 data, 4-20 mA current loop circuits and signal lines
Design: Multistage hybrid fail-safe design
Warranty: 10-Year Unlimited Free Replacement
Strength: 18kA per pair; 9kA per wire
Operating Frequency: 50MHz
Mode of Protection: Line-line and line-ground.
Response Time: < 1 nanosecond
Number of Protected Circuit: 1-5 pair (2-10 wire)
Series Resistance: 2.4 ohm
Dimensions (approx.): Two enclosure sizes depending on the number of circuits
  Case A (1-2 pair): 3.94"H x 1.40"W x 2.28"D
  Case B (3-5 pair): 3.94"H x 2.80"W x 2.28"D
Enclosure Type: High-impact, non-metallic UL 94-V5 flame resistant rated
Connection Method: Screw terminal connector; #12-30 AWG
Mounting Method: All units come standard with a universal mounting bracket that allows the units to be screw down or Din-Rail mounted.
Operating Temperature: -40°C to 85°C (-40°F to 185°F)
Weight: 0.50 lbs.—0.75 lbs. (0.23 kg—0.34 kg) depending on number of circuits.

SLP AVAILABLE CONFIGURATIONS

**TPD - xx SLP YY**
**XX OPERATING VOLTAGE 10, 15, 24, 48, 120, 190**
**YY NUMBER OF WIRES 2, 4, 6, 8, 10**

The maximum operating voltage is listed above. Use the lowest voltage possible without going under the system operating voltage, giving yourself 10% head room minimum.

- **Case A:** TPD-24SLP2 & TPD-24SLP4
- **Case B:** TPD-24SLP6 & TPD-24SLP8

**Tech Note:** For installation techniques please refer to installation manual.

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