Transient Voltage Surge Suppressors By:

Response Time:

4-20mA Current Loop Models

Current Loop protection device with Discrete All-Mode Protection



Power Quality is our Only Business"

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The SineTamer® ST-CL devices are designed to protect current loop circuits, signal lines and/or low speed data lines feeding transducers, leak detectors, flow meters and a broad variety of similar sensory devices.

This device is connected in series using the wire clamping terminal strips provided, making your installation a breeze. A ground lug is provided on the side of the unit to insure a low impedance ground discharge path. The unique design of these devices make them among the most versatile TVSS devices on the market with performance specs that are superior to our competitors and a warranty that is second to none.

GENERAL	
Description:	Series wired transient voltage surge suppressor with encapsulated O ptimal R esponse N etwork™ circuitry for protection of current loop circuits, signal lines and other low speed data circuits.
Application:	Designed for use with data collection and switching circuits to protect data transmission system equipment from damaging transients generated between terminals and equipment in the data collection/transmission system.
Warranty:	25 Years Unlimited Free Replacement

MECHANICAL		
Enclosure:	Plastic, UL 94V; Metal bottom section with ABS plastic terminal housing upper half.	
Mounting:	External mounting feet.	
Connection Method:	Wire clamping box terminals located at the input and output sides of the device. Wire size: Lines #18-22 AWG, Ground #6-12 AWG. PDB version - Lines: standard punch down block terminals (#26 wire min - #22 wire max)	
Shipping Weight:	≈1lbs and 6 lbs.	

CIRCUITRY	
Circuit Design:	Series wired hybrid design incorporating discrete all mode protection and utilizing our encapsulated O ptimal R esponse N etwork [™] design to provide lowest possible let-through voltages. All suppression circuits are completely encapsulated in our exclusive compound to assure long component life and complete protection from the environment and/or vibration.
Protection Modes:	Dedicated protection components and circuitry for each mode. Discrete L-L (Normal Mode) and L-G (Common Mode)

PERFORMANCE	
Maximum Continuous Operating Voltage:	36VDC or 62VDC
Maximum Continuous	
Operating Current:	500 mA
Frequency Range:	DC to 2MHz
Maximum Data Rate:	Up to 2 Mbps
Series Resistance:	5 Ohms per wire (10 Ohms loop)
Peak Surge Current per Pair:	L-L 10 kA, L-G 10 kA

<1 nanosecond

Let-Through Voltages Using ANSI/IEEE C62-41-1991 Test Environment: Static, positive polarity.					
All voltages are peak (±10%). Time base=10μsec.					
Model	Maximum Continuous	Test Mode	B3/C1		
	Operating Voltages		Impulse Wave		
	(Vpk)		6,000V, 3000A		
ST-PDBx-D24	36 V	L-G	< 40		
	36 V	L-L	< 80		
ST-PDBx-D48	62 V	L-G	< 80		
	62 V	L-L	< 160		

x= 6 pair or 25 pair

