S D™ PROTECTOR SERIES

ELECTRO STATIC DISCHARGE PROTECTION FOR COMMUNICATION INTERFACES

DATA

VOICE

AUDIO

SIGNAL

INSTRUMENTATION

PROCESS CONTROL

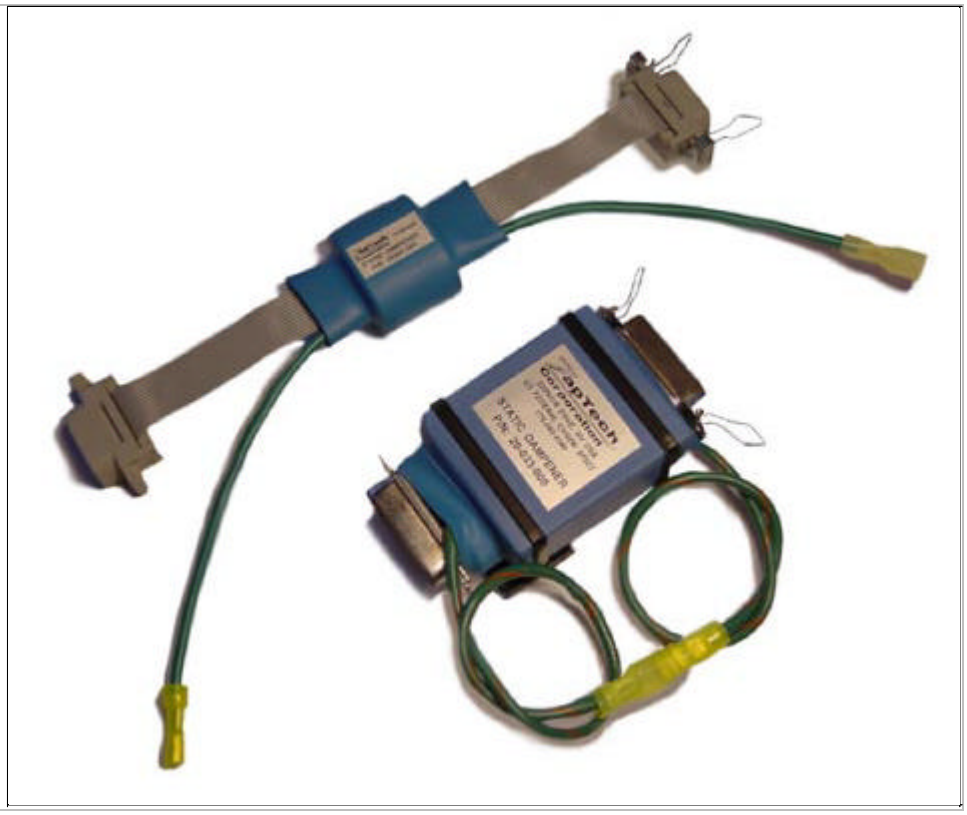
NETWORK INTERFACES

ETHERNET

RS-232

RS-422

RS-485



COMMUNICATION PORT SURGE PROTECTION

The ZapTech SD Series static dampener devices were specifically designed to address the need to integrate ESD, EMI and transient voltage suppression in a convenient, connectorized assembly. The SD series devices can be specifically configured to virtually any physical communication interface. SD series devices are available for a wide range of technology options including choices of suppression component, impedance characteristics, clamp voltage, pin configuration, connectorization and grounding methods. The compact physical shape of the SD series enclosure allows it to be conveniently installed in-line with system interface cables.

As a significant measure to prevent disruption and electrical damage to your system, the SD series devices help extend the life of sensitive circuits at the component level while improving system reliability. Zap-Tech static dampeners are best applied as near as physically practical to the point of induction on sensitive electronic equipment, components and system ground references. SD series devices are specifically configured for installation directly in-line with the communication port on your equipment. The devices provide protection for virtually any connector interface standard versions are available for Centronics style 14 and 24 pin connectors as well as DB9, DB15 and DB25 connector interfaces.

The SD series Static Dampeners are designed to be installed in-line between the static environment and the sensitive electronic equipment. The SD device must be grounded to earth using the grounding w
ires integral to the device.

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Zap-Tech™ Corporation

ZAP-TECH

Electrical Specifications

The Following information is needed to specify a Static Dampener device:

1. Pin configuration diagram (Number of protected circuits)
2. Protection technology desired (if known) Or: Maximum signal voltage, Current and Frequency (or maximum data rate).
3. Clamp voltage desired.
4. EMI suppression impedance option.
5. Connector gender.

Model number Example:

14-A7-B-M/F

See charts below for model number logic:

1. Number of protected circuits:

	8	14	24	36	50
Option Code	08	14	24	36	50

One circuit equals one pin. Options include from 8 to 24 protected circuits in increments of 2.

2. Protection Technology:

	SAD	MOV	Thyristor	Mixed
Option Code	A	V	C	S

SAD = Silicon Avalanche Diode, MOV = Metal Oxide Varistor. Mixed-"S " configurations must include pin to technology assignments. "S" configuration parts are assigned a 20-XXX-XXX series part number. Contact factory for special part number assignment.

3. Clamp Voltage:

	7 Volt	18 Volt	25 Volt	36 Volt	Mixed
Option Code	7	18	25	36	S

Clamp Voltages can be selected from 5 to 330 volts. Specify actual voltage. Mixed "S" voltage configurations are assigned a special 20-XXX-XXX series part number. Contact factory for special part number assignment.

4.EMI Impedance option. +/- 20%

	170 Ohms @ 100 to 300 MHz	210 Ohms @ 100 to 300Mhz	900 Ohms @ 100 to 300Mhz
Option Code	A	B	C

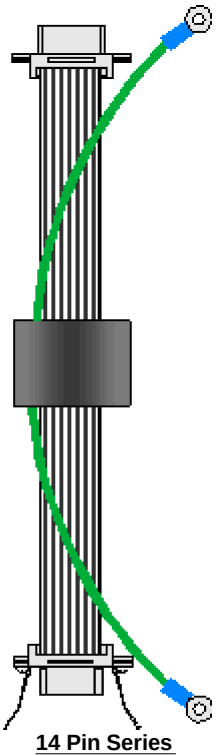
5. Connector Gender Options:

	Male to Female	Female to Male
Option Code	M/F	F/M

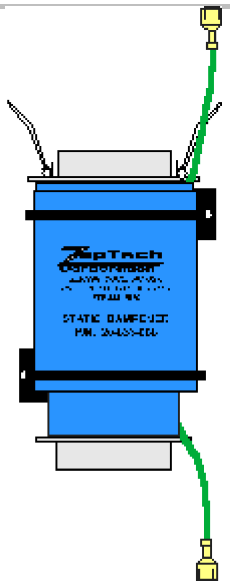
Special connector options are available for virtually any type of connector up to 50 circuits (pins). Connector types and cable lengths must be specified. Standard connectors are 14 pin Centronics style male to female. Special connector configurations are assigned a special 20-XXX-XXX series part number. Contact factory for special part number assignment.

SD SERIES

Mechanical Specifications



14 Pin Series



24 Pin Series

INSTALLATION:

Zap-Tech protectors should be installed in series with the incoming communication line at the port of the equipment being protected. The protector's grounding wire must be connected to the chassis ground of the protected equipment.

IMPORTANT!

It is important that the protector and the chassis of the equipment to be protected are both properly grounded to a properly earthed electrical ground common to the equipment's chassis and to earth via a 3-prong power cord and/or a ground wire of 14 AWG or larger. Protectors should be installed at both ends of communication lines to ensure equipment protection at each er

Custom variations are available including mixed or special voltages, different connectors or pin outs. Contact your supplier for details.

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