

Surge Suppressors for RS232 Data Lines

RS232 lines are easily damaged by data line surges. Sources of surges include nearby lightning strikes, static discharge (ESD), fluorescent lighting, large motors (such as machinery and elevators), and ac power surge suppressors. Peradata's surge suppressors with VSET™ circuitry provide unmatched protection for your RS232 equipment.

Surge Suppressors with "D-Sub" Connectors

Series 232SP

These plug-compatible models protect your RS232 ports from hardware damage caused by data line surges. They are easily installed with only a screwdriver and are ideal for new equipment, servicing or retrofit.

Series 232SP-RJ

These suppressors convert a standard DB25 connector to RJ11 or RJ45 modular connectors. These models can be provided with connectors and wiring to your specifications. Take advantage of less expensive telephone type wiring and hardware and increased system flexibility.



Model	Description
232SP-03xy	DB25 connectors, pins 2, 3 and 7 protected
232SP-08xy	DB25 connectors, pins 2-8 and 20 protected
232SP-3RJ11y	DB25 to RJ11 connectors, DB25 pins 2, 3 and 7
232SP-3RJ45y	DB25 to RJ45 connectors. DB25 pins 2, 3 and 7
232SP-8RJ45y	DB25 to RJ45 connectors, DB25 pins 2-8 and 20
SP9-232Axy	2 line with DB9 connectors, specify pinout
SP9-232Bxy	3 line with DB9 connectors, specify pinout
SP9-232Cxy	4 line with DB9 connectors, specify pinout
SP9-232B1	for PC compatible COM port pins 2 (RD), 3(TD) and 4(DTR) protected

"x" and "y" are replaced with "M" or "F" to designate male or female connectors. "x" is connector on cable (surge entry) side of suppressor. "y" is connector on the equipment side of suppressor.

Models are available with DIN rail mounting. Please see separate data sheet "Surge Suppressors for Factory Data Networks" for additional models for RS232 systems.

Surge Suppressors with Wire Terminal Connectors

These models are provided with wire terminal blocks for input and output connections, mounting holes for wall mounting and for standard 19 inch rack panels, as well as numerous cable tie down points.

Model	Description
SP4L-C	4 line with wire terminal connections
SP8L-C	8 line with wire terminal connections
SP12L-C	12 line with wire terminal connections
SP16L-C	16 line with wire terminal connections

For multi-port suppressors and distribution panels with surge suppression, see separate data sheet "Multi-port Surge Suppressors".

Note: Special configurations and custom cabling of most products are available. Contact our office for application assistance.

Specifications

Circuit:	3 stage, solid state VSET suppression for each data line. 2 stage for SP9 models.
Clamp Voltage:	25V peak (RS232)
Response Time:	less than 1 nanosecond
Data Rate:	up to 38 Kbit/sec
Ratings:	
232SP and SPx models:	2100W rated devices for each data line
SP9 models:	600 W rated devices for each data line

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Data Communication Products

Surge Suppressors for RS422/485 Data Lines

RS422 and RS485 formats are popular for long distance data communications. These long data cables are particularly susceptible to transient surges from ac power line disturbances, fluorescent fixtures, equipment motors and ac power surge suppressors. Peradata's data line surge suppressors, with VSET™ circuitry, suppress transient surges on your data lines before they can damage your equipment.

RS422/485 Suppressors with "D-Sub" Connectors

These direct plug-in models are easily installed and can be wired to your specifications

Model	Description
422SP-02xy	2 wire, DB25 connectors, to 38 kbit/s
422SP-04xy	4 wire, DB25 connectors, to 38 kbit/s
SP9-422Cxy	4 wire, DB9 connectors, to 38 kbit/s
710A	4 wire, DB9 connectors, to 20 Mbit/s

"x" and "y" are replaced with "M" or "F" to designate male or female connectors. "x" is connector on cable (surge entry) side of suppressor. "y" is connector on the equipment side of suppressor.



Suppressors with Wire Terminal Connectors

These suppressors will protect RS422 and RS485 equipment operating at up to 20Mbit/sec. They feature wire terminal blocks for each input and output connection, mounting holes for wall mounting and for standard 19 inch rack panels, as well as numerous cable tie down points.

Model	Description
SP4L-A	4 line, low frequency, to 38 kbit/s
SP4H-A	4 line, high frequency, to 20 Mbit/s
SP8L-A	8 line, low frequency, to 38 kbit/s
SP8H-A	8 line, high frequency, to 20 Mbit/s
SP12L-A	12 line, low frequency, to 38 kbit/s
SP12H-A	12 line, high frequency, to 20 Mbit/s
SP16L-A	16 line, low frequency, to 38 kbit/s
SP16H-A	16 line, high frequency, to 20 Mbit/s

Models are available with DIN rail mounting. Please see separate data sheet "Surge Suppressors for Factory Data Networks" for additional models for RS422/485 systems.

Note: Special configurations and custom cabling of most products are available. Contact our office for application assistance.



Specifications

Circuit:	3 stage, solid state VSET suppression for each data line. 2 stage for SP9 series models.
Clamp Voltage:	+/- 5V
Response Time:	less than 1 nanosecond
Ratings:	422SP, 710 and SPxx models: 2100W rated devices for each data line SP9 models: 600 W rated devices for each data line