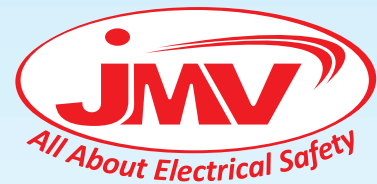


RS 232, 485 Serial Port Surge Protection Devices



Serial port lines (RS 232, RS 485) are highly sensitive lines which are quite prone to be damaged by transient/surge due to its wide distribution network. The damaged to computer serial ports have become more and more expensive to replace because of higher integration. In the case of damage usually you have to buy new motherboard if one serial port in it gets broken.

Protection of serial port is a basic requirement against the harmful transient/surges. Every communication line wire which is connected between computers must be protected. In simplest case there are only transmit data, receive data and ground lines used. In this case only protection components are needed: one between transmit data and ground and another between receive data and ground. If more lines are used, then all of them must be protected with a protection component between signal wire and signal ground.

JMV's Db9 series surge protection device is ideal for protecting RS-422, RS-485, RS-232 lines as well as providing protection for sensors, control lines and AISG lines. To install SPD, insert the surge protector in series between the data cable and the I/O port of the equipment you wish to protect.



Technical Specification of RS 232, 485 Serial Port Surge Protection Device

Model	BDL-DB9
Standards for air and creepage distances	DIN VDE 0110-1 IEC 60664-1
Mounting Type	Connection-specific intermediate plugging
Interface	DB9, 15, 25 Pins
Direction of Action	L-L & L-Earth Ground
Degree of Protection	IP20
Relative Humidity	< 95%
Ambient Temperature (operation)	-40 °C ... 80 °C
Protective Circuit	
Rated voltage(Un)	12VDC
Nominal surge discharge current In(8/20)µs	2.5kA
Voltage protection level(U _p)	>36V
Response time(tr)	≤ 10ns
Maximum data transfer speed(Vs)	1Mbps
Insertion Loss	≤0.2db
Configuration Protected	9, 15, 25 wires
Standards	
Standards/regulations	IEC 61643-21

Features

- ❖ Extremely sensitive avalanche-diode technology.
- ❖ Minimal signal loss.
- ❖ Response time is less than 10 ns.
- ❖ Clamping is 18 volts.
- ❖ Absolute network reliability.
- ❖ Simple installation at the port.

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