

# SPD-12VDC-3P

Surge Protection Device for Rs485 network

## THREE STAGE PROTECTION

Gas Discharge Tube  
High speed current limiting  
Transient voltage suppressor



## Description

Model SPD-12VDC-3P meets EN 61000-4-5 (Surge): Signal 6KV recognized standards for surge protectors. It protects against lightning strikes, power surges, and other types of voltage disturbances with three stages of protection for each supported line: a gas discharge tube followed by a High speed current limiting circuit and finally a Transient Voltage Suppressor (TVS). Two RS485 signals on terminal blocks are supported with a clamping voltage of 6.8 Volts. The SPD-12VDC-3P is housed in a sturdy DIN rail mount case. In order to work properly, it is important to have a good connection between the #G screw and a solid earth ground with a minimum 12AWG (3.31 mm<sup>2</sup>) copper wire

**m2mLogger**<sup>®</sup>  
remote monitoring eco-system

## Technical Specifications

### GENERAL

Maximum Power Protection	600W			
Surge Voltage Category	6KV, 8/20 $\mu$ S Impulse withstand voltage			
Working Voltage	5 VDC			
Clamping Voltage	<b>Stage</b>	<b>Min</b>	<b>Nominal</b>	<b>Max</b>
	<b>1</b>	72 VDC	90 VDC	108 VDC
	<b>2</b>	6.54 VDC	6.80 VDC	7.14 VDC
Response Time	< 1ns			
Protection Mode	Line to Line, Line to Ground			
Number of Protection Lines	2			
Resistance in Series	10 $\Omega$ $\pm$ 1%			
Maximum Backup Fuse	500mA			

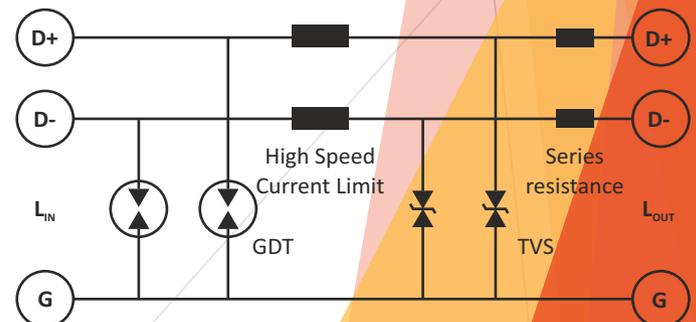
### ENVIRONMENTAL

Operating Temperature	-40 to 80°C
Storage Temperature	-40 to 85°C
Humidity	5 to 95% RH (non-condensing)

### PHYSICAL

Dimensions	22.5 x 75 x 46 mm
Mounting	DIN Rail
Weight	40 gms approx.
Color (RAL)	Black (9005)
Material	ABS

## Equivalent Circuit Diagram



Email [sales@m2mlogger.com](mailto:sales@m2mlogger.com)

Web [www.m2mlogger.com](http://www.m2mlogger.com)



## **M2MLogger**

An ISO 9001:2015 Certified Company

### **HEAD OFFICE**

Plot 67, Street 1-B,  
Friends Colony Industrial Area,  
Shahdara, Delhi - 110095  
INDIA

### **WORKS**

B-8, First Floor  
F.I.E. Patparganj Industrial Area  
Delhi - 110092  
INDIA