

Surge Protection Device RS485 SPD-RS485

Threestage SPD485 surge protection device
meets standard protection against power surges, voltage surges,

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Key Features

Ordering Information

Product Code	Description
SPD-RS485	Surge Protection Device RS485 SPD-RS485
SPD-24V-DC	Surge Protection Device 24V DC SPD
SPD-230V-AC	Surge Protection Device 230V SPD / Single Phase SPD
SPD-ETH-RJ45	Ethernet Surge Protection Device
UC-RS485	USB to RS485 Converter

Applications

- **Industrial Automation & Process Control:** Reliable signal interfacing and device connectivity across automated production lines.
- **SCADA & PLC Integration:** Seamless communication between field instrumentation and control systems.
- **Control Panel Building:** Compact 35 mm DIN rail mounting for clean and space-efficient cabinet wiring.
- **OEM Equipment & Diagnostics:** Robust electrical protection and standard industrial ratings.

Specifications

Parameter	Value
Mounting Type	35 mm DIN Rail Mounting
Dimensions	60 mm x 50 mm x 20 mm (L x W x H)
Enclosure Material	Industrial ABS plastic
Operating Temperature	−10 °C to +60 °C
Storage Temperature	−40 °C to +85 °C
Relative Humidity	5% to 95% RH (non-condensing)

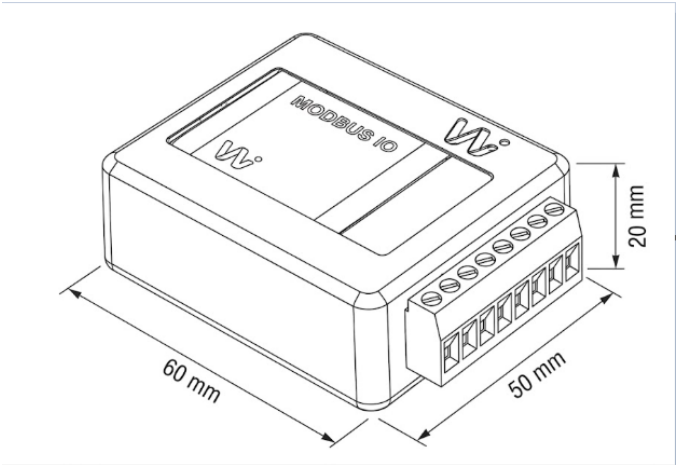
Electrical Specifications

Parameter	Specification
Operating Voltage	Max 9 V DC
Nominal Discharge Current (In)	5 kA (8/20 μs impulse)
Max Discharge Current (Imax)	10 kA (8/20 μs impulse)
Response Time (tA)	< 1 ns (TVS)
Protection Technology	Multi-stage Hybrid (Choke + TVS Clamping)
DC Resistance	R DC : 2x 0.23 ohm
Line Impedance	Z max 1500 ohm
Peak power dissipation	Max. 1,500 W with a 10/1,000μs waveform

Isolation & Protection Specifications

Parameter	Value	Standard / Notes
Voltage Clamping Level	Low Clamping	High-efficiency multi-stage surge attenuation
Surge Standard	IEC 61643-21 / IEC 61000-4-5	Class-compliant industrial transient immunity
Grounding Interface	Integrated PE Terminal	Low-impedance earth DIN rail connection

Mechanical Dimensions



Terminal Details & Wiring

Connect unprotected field lines to the Line In side and protected equipment to Line Out. Ensure solid PE ground connection.

Revision History

Revision	Date	Description of Change
Rev 1.0	2026-09-09	Initial datasheet release for SPD-RS485

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Support

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