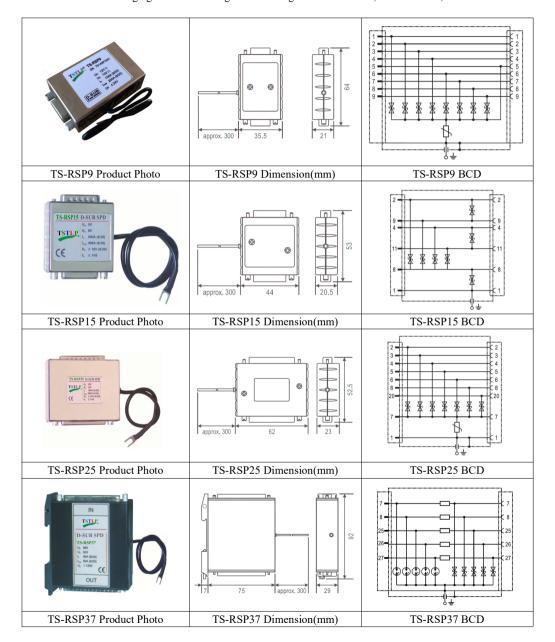




❖ INTRODUCTION: TS-RSP series surge arrester is used at LPZ 2-3 boundary, provide surge protection for RS485, RS422 or RS232 signal devices from damages, such as surge voltages, operating over voltages, electrostatic discharging and so on. Designed according to IEC 61643-21; GB 18802.21; YD/T 1542.





❖ TECHNICAL DATA

TECHNICAL DATA		I	I		
Model		TS-RSP9	TS-RSP15	TS-RSP25	TS-RSP37
Nominal voltage	Un	12V-	5V-	12V-	48V-
Rated voltage (max. continuous voltage)	Uc	15V-	8V-	15V-	55V-
Lightning impulse current	In	/	/	/	2.5kA
(10/350)					(line-SG)
Nominal discharge current (8/20)	In	100A (line-SG)	200A (line-SG)	100A (line-SG)	3kA (line-SG)
Nominal discharge current (8/20)	In	100A (SG-PG)	800A	100A	
			(SG-PG)	(SG-PG)	
Max. discharge current (8/20)	I _{max}	200A (line-SG)	400A	200A	5kA (line-SG)
			(line-SG)	(line-SG)	
Max. discharge current (8/20)	Imax	200A (SG-PG)	1.3kA	200A	
			(SG-PG)	(SG-PG)	
Voltage protection level at In	Up	≤24V (line-SG)	≤16V (line-line)	≤24V(line-SG)	≤120V
		≤200V (SG-PG)	≤16V (line-SG)	≤200V(SG-PG)	(line-PG)
			≤16V (SG-PG)		
Voltage protection level at	Up	≤21V (1 ine-SG)	≤11V (line-line)	≤21V(l ine-SG)	≤100V
1kV/ms		≤90V (SG-PG)	≤11V (line-SG)	≤90V (SG-PG)	(line-PG)
			≤11V (SG-PG)		
Bandwidth		10 MHz	4 MHz	10 MHz	22 MHz (Series
					impedance per line (R)
Response time	t_A	≤1ns (line-SG)	≤1ns (line-SG)	≤1ns (line-SG)	≤1ns(line-SG)
		≤1ns (SG-PG)	≤1ns (SG-PG)	≤1ns (SG-PG)	≤25ns (SG-PG)
Max. data transmission rates	Vs	1Mbits/s			
Operating temperature range		-40°C+80°C			
Relative humidity		≤ 95% (25°C)			
Protective lines		Line: 8/ SG/PG	2 two-core	7/SG/PG	Line:7/8/25/26/2
			lines		7, PG:12/20/30
Pinning		Line:	2/9 1st pair;	Line:	Line:
		1/2/3/4/6/7/8/9,	4/11 2 nd pair;	2/3/4/6/7/8/20,	7/8/25/26/27
		SG: 5 (standby	8:SG: 1:PG	SG: 7 (standby	(standby lines
		lines disconnected)	(standby lines	lines	disconnected)
			disconnected)	disconnected)	
Mounting in		D-Sub, 2 threaded screws			D-Sub, 2
					threaded
					screws/35mm
					Din Rail
Connection (input / output)		D-sub 9	D-sub 15	D-sub 25	D-sub 37
		socket/plug	socket/plug	socket/plug	socket/plug
Shield earthing		Outgoing cable 1.5mm²x 300mm			
Enclosure material		Plastic, metallised			
Dimension		64mm x 35.5mm x 21mm			
Standards		IEC 61643-21; GB 18802.21; YD/T 1542			
Certification		CE(EMC, LVD)			



* MAIN CHARACTER

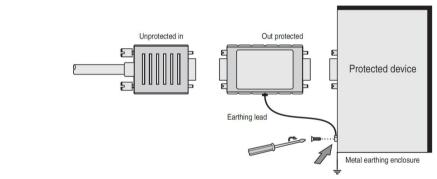
- ✓ High discharge capacity, low voltage protection level, quick response
- ✓ Do not impact the normal work of data management devices and system
- ✓ Apply for high speed transmission devices

NSTALLATION INSTRUCTION

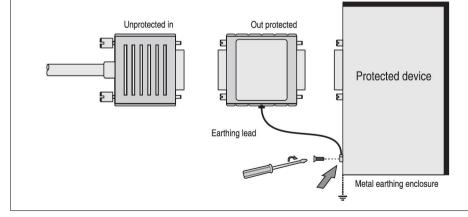
- This product is connected in series to the protected device, installation in the partition of LPZ 2-3 interface:
 - In order to prevent lightning induction, LPZ 0A -1 and LPZ 1-2 interface must install additional surge protection products.
- 2. The out terminal should be connected to the protected devices.
- 3. SPD's earthing lead must be connected to nearby earthing BusBar or the metal earthing enclosure of protected device.
- 4. After above, you should ensure the circuit is functioning.

Regularly inspect the operating status, especially after lightning. Once the communication is off, electrician should check/replace the SPD.

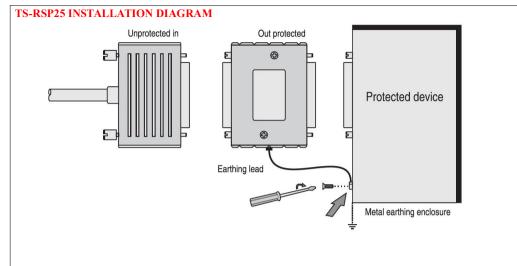
TS-RSP9 INSTALLATION DIAGRAM

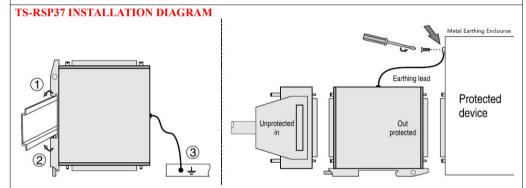


TS-RSP15 INSTALLATION DIAGRAM









WARNING:

- The device must be installed by electrically skilled person, conforming to national standards and safety regulations.
- 2. It is recommended that installation should be done under power off condition.