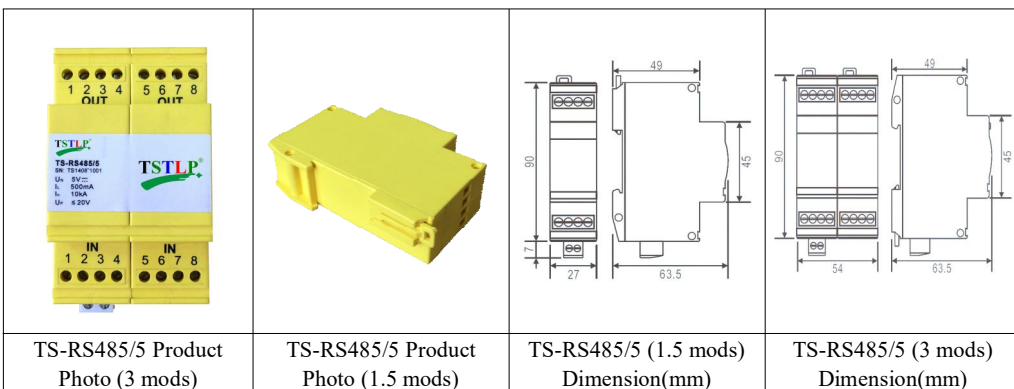




## ■ TSTLP®/TS-RS485/5 Surge Arrester for Information Technology System

- ❖ **INTRODUCTION:** TS-RS485/5 is designed according to GB 18802.21-2004/IEC 61643-21 for installation at LPZ 0<sub>B</sub> -2 or higher. Provide surge current protection for RS 485/RS 422 industrial bus control, other field bus and temperature measurement.
- ❖ We're able to make **different CIRCUIT, Voltage & Technical Data** according to customers' requirement, just tell exact product application needed or send us sample(s) to make.



## ❖ TECHNICAL DATA

Model		TS-RS485/5
Nominal voltage	U <sub>n</sub>	5V-
Rated voltage (max. continuous voltage)	U <sub>c</sub>	6V- / 4.2V~
Nominal current	I <sub>L</sub>	0.5A
Nominal discharge current (8/20)	I <sub>n</sub>	10kA
Voltage protection level at I <sub>n</sub>	U <sub>p</sub>	≤ 20V (line-line) ≤ 700V (line-PG)
Voltage protection level at 1KV/μs	U <sub>p</sub>	≤ 8.5V (line-line) ≤ 600V (line-PG)
Response time	t <sub>A</sub>	≤ 1ns (line-line) ≤ 100ns (line-PG)
Bandwidth	f <sub>G</sub>	1.7MHz
Series impedance per line	R	1.8Ω
Capacitance	C	≤ 5nF
Operating temperature range		-40°C...+80°C
Relative humidity:		≤95% (25°C)
Cross-sectional area		Max. 2.5mm <sup>2</sup> flexible
Mounting on		35mm DIN rail
Enclosure material		Yellow thermoplastic, UL94-V0
Standards		IEC 61643-21:2000; GB 18802.21-2004; YD/T 1542-2006
Compliance		CE (LVD, EMC)

## ❖ MAIN CHARACTER

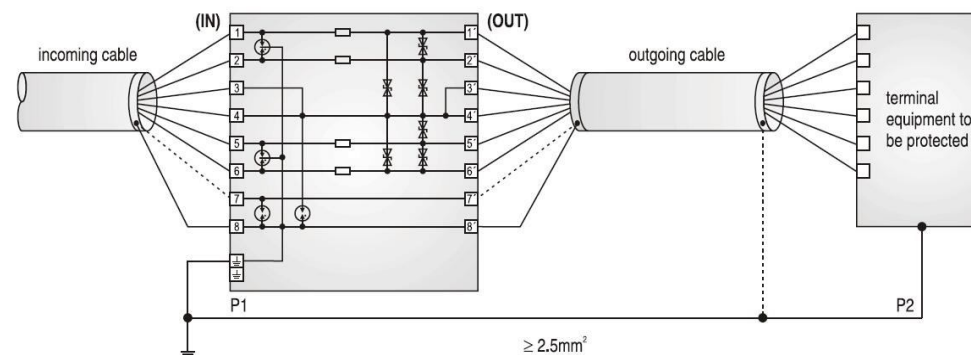
- ✓ Quick response, Low voltage protection level
- ✓ Direct or indirect shield earthing

## INSTALLATION INSTRUCTION

1. This product is connected in series to the protected device.
2. The out terminal should be connected to the protected devices.
3. There is a earthing terminal at input side, earth lead must be connected to the lightning earthing system, ideally using 2.5mm<sup>2</sup> cable. The cable should be as short as possible.
4. Shields on the TS-RS485/5 can be grounded directly or indirectly. If grounded directly, the shield of the incoming cable is connected to terminal 8'(IN) and the outgoing cable is connected to terminal 8'(OUT). If grounded directly, the shield of the incoming cable is connected to terminal 7'(IN) and the outgoing cable is connected to terminal 7'(OUT).

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

## TS-RS485/5 INSTALLATION DIAGRAM



## WARNING:

1. 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.