

DATA LINE SURGE PROTECTION DEVICE



**Model : TPR-CAT5-PoE1
for mode B**

1. GENERAL DATA :

The Power over Ethernet (PoE+) surge protection device is designed to protect sensitive data-processing equipment such as servers, routers, access points, computers, printers and networking equipment from static discharge, lightning transients voltage surge, it applications for indoor use by the RJ45 jacks for easy to connect in-line with existing data connections.

2. MECHANICAL DATA :

- 2.1 Protect by connecting in series to the network
- 2.2 35 mm DIN rail. momtable
- 2.3 Temperature : -20 C° to $+70\text{ C}^{\circ}$
- 2.4 Relative humidity : $\leq 9\%$ (at 25 C°)
- 2.5 Dimension : 9 mm. x 22 mm. x 22 mm.
- 2.6 Weight : 30 grams

3. TECHNICAL SPECIFICATION :

MODEL : TPR-CAT5-PoE	Specification
3.1 Max. operating voltage	6 Volt (1-2), (3-6) 60 Volt (4-5), (7-8)
3.2 Protection line (All Pins)	(1-2), (3-6) / (4-5), (7-8)
3.3 Voltage protection level	< 30 Volt (at 1 kV/ μ Sec) (1-2), (3-6) < 85 Volt (at 1 kV/ μ Sec) (4-5), (7-8)
3.4 TOVs surge current	> 500 mA in 5 Sec. 50 Hz. (1-2), (3-6)
3.5 Let through voltage (TOVs)	<14 Volt (due to TOVs surge current) (1-2), (3-6)
3.6 Clamping voltage	8 Volt $\pm 25\%$ at >100 mA 50 Hz (1-2), (3-6)
3.7 Transient surge current	50 A (at 10/1000 μ Sec)
3.8 Data transmission rate	10/100 Mbps (Cat5)
3.9 Operating temperature range	-20 C° $+70\text{ C}^{\circ}$
3.10 Connection (input / output)	RJ45 socket
3.11 Shield earthing	By earthing screw
3.12 Enclosure material	Plastic with UL94V-0
3.13 Accordance with	IEC 61643-21, IEEE C62.41.1-2002, IEEE 802.3 af/at (PoE/PoE+), TIA/EIA-568