



LPS[®] TP SERIES

INSTALLATION INSTRUCTIONS

The LPS[®] TP Series are Surge Protective Device (SPD) for Twisted Pair Wires. The Standard Clamping Voltage at 1mA is as follows:

- TP - LAN & TP - LAN(ST) is 9.5V (Line - Line) & 33V (Line - Earth)
- TP - 4/12 is 22V
- TP - 4/24 is 30V
- TP - 2TEL & TP - 4TEL is 220V

TECHNICAL SUPPORT

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Safety Precautions & Installation Procedures

1. Do not install during thunderstorm.
2. Turn Off power supply to all equipment to be protected.
3. Verify that the equipment chassis is earthed.
4. Connect the ground wire cable lug of the SPD to the metal chassis of equipment by;
 - i. Removing a screw on the metal chassis that is within reach of the ground wire.
 - ii. Removing any paint around the screw hole.
 - iii. Tightening screw with ground wire cable lug under it.
 - iv. If equipment has no metal chassis, connect the ground wire to the nearest power socket earth / earthed metal equipment rack / earthed metal bracket which support the equipment.
5. Cut and ensure that the incoming Data line is less than 1 meter away from the equipment.
6. Strip about 50mm of cable jacket to expose wires.
7. Strip about 6mm of wire insulator to expose conductor and then:

8a. For TP - 2TEL

Connect the two (2) incoming data lines to the two (2) L in the centre of LINE terminal of the SPD. Then, connect the two (2) equipment data lines to the two (2) L in the centre of EQUIPMENT terminal of the SPD following the same procedures used in steps 6 & 7.

8b. For TP - 4TEL & TP - 4/24 & TP - LAN(ST)

Connect the four (4) incoming data lines to the four (4) LINE terminal of the SPD. Then, connect the four (4) equipment data lines to the four (4) EQUIPMENT terminal of the SPD following the same procedures used in steps 6 & 7.

8c. For TP - LAN

TP - LAN only protects pin 1, 2, 3 & 6 of cat 5 or higher cable. Before connecting the incoming data lines to the SPD, ensure that the color codes of the active pin 1, 2, 3 & 6 match the color codes of the RJ 45 connectors for the system. Then only remove the RJ 45 connector (if any) and connect the incoming data line (wires 1, 2, 3 & 6) to L of LINE terminal of the SPD. Lastly, connect a patch cable from the equipment to the EQUIPMENT jack of the SPD.

9. Apply power to the now protected equipment.

Trouble - shooting

1. Check to see if your equipment is turned on.
2. Inspect all connections.
3. Remove and by - pass SPD and verify proper operation. If the system comes back on line without the SPD installed, chances are the SPD has been damaged by excessive surge. Replace the SPD as soon as possible with a new SPD. It is not advisable to run the system without SPD.

Important Note:

- *All LPS[®] Products must be connected to Power Earth, directly or indirectly.*
- *All connecting leads must be as short & as straight as possible. The SPD must be less than 300mm away from the equipment to be protected.*



