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INSTALLATION INSTRUCTIONS MODEL: ST-S-TDxx-nx

WARNING - HAZARDOUS VOLTAGES MAY BE PRESENT. Improper installation may result in serious injury to the installer and/or damage to the electrical system or connected communication equipment. Read all instructions before beginning the installation. Safety equipment must be used as prescribed by OSHA, whenever working around hazardous voltages.

Failure of unit and/or consequential equipment damage due to improper installation or misapplication is not covered by the product warranty.

Voltage measurements and installation must be completed by a licensed/qualified electrician in accordance with the National and/or Canadian Electric Code, State, and Local codes. These requirements supersede this instruction.

POWER MUST BE REMOVED FROM THE ELECTRICAL SYSTEM BEFORE INSTALLING THE ST-S-TDxx-nx TELECOM UNIT.

BEFORE INSTALLATION

Prior to installation of the **ST-S-TDxx-nx** unit:

1. Test system to verify that the voltage and current do not exceed the Maximum Continuous Operating Levels listed in the table below
2. Actual measurement with an oscilloscope, or verification through review of 'as installed' equipment specifications may be sufficient to establish compliance
3. **If the circuit exceeds Maximum Continuous Operating Levels in voltage and/or current, do not proceed with the installation!**

The **ST-S-TDxx-nx** Designed for use with Data, signal and current loop circuits to protect Data transmission system equipment from damaging transients generated between terminals and equipment in the Data collection/transmission system.

There are no position-oriented components in **ST-S-TDxx-nx** unit; therefore, the device can be mounted upside down or sideways to allow for the most efficient installation.

Model	Maximum Continuous Operating Voltages	Maximum Continuous Operating Current
ST-S-TD5-nx	7.5 V 15 V	500 mA
ST-S-TD12-nx	24 V 48 V	500 mA
ST-S-TD24-nx	36 V 72 V	500 mA
ST-S-TD48-nx	62 V 124 V	500 mA
ST-S-TD140-nx	200 V 400 V	500 mA

Notes: n = 8, 12 or 16 circuit conductors. x = Blank 2
Mbps, x = X 10 Mbps, x= C 100 Mbps

INSTALLATION STEPS

CAUTION: Do not proceed further until power has been removed from the electrical system.

STEP 1: Mounting the Unit

- Mechanically mount the suppressor using the mounting feet at the ends of the device.
- The device should be mounted for maximum separation between protected and unprotected wiring.
- The device contains no direction-oriented components and can be mounted in any position.
- The device should be the last device placed in the circuit before the protected equipment.
- The device should be mounted directly to, or as close as practical to the equipment to be protected.

STEP 2: Wiring the Unit

- Connect the cable shield to the device ground lug on the primary or control end of the cable only. Float the shield on the secondary or equipment end of the cable (as necessary).
- Connect a ground wire (#6-12 AWG) from ground lug to system ground.
- Connect the incoming line 1 wire to the L1 INPUT screw terminal.
- Connect the outgoing line 1 wire to the L1 OUTPUT screw terminal directly across from the L1 INPUT terminal.
- Connect the incoming line 2 wire to the L2 INPUT screw terminal.
- Connect the outgoing line 2 wire to the L2 OUTPUT screw terminal directly across from the L2 INPUT terminal.
- Continue the line INPUT and OUTPUT installations for remaining lines.

STEP 3: Restart the system and check for proper operation

- The system may require recalibration due to the additional resistance of the suppressor on the line. If the system does not operate properly, remove the suppressor and contact supplier.

