

WARRANTY INFORMATION

Meter-Treater, Inc. (M-Ti) warrants to its customers that the hardware products that M-Ti manufactures and sells will be free from defects in material and workmanship. Warranty coverage is for fifteen (15) years starting from the date of the original shipment from M-Ti. If any such product proves defective during the applicable warranty period, M-Ti, at its discretion, will repair without charge for parts and labor or will provide a replacement in exchange for the defective product.

This warranty shall not apply to any defect, failure, and/or damage caused by improper use, or inadequate maintenance or care. M-Ti shall not be obligated to furnish service under this warranty (a) to repair damage resulting from connection to incompatible equipment; or (b) to service a product that has been modified, altered or integrated with other products.

WARRANTY RETURNS

All warranty and non-warranty repairs must be returned freight prepaid and insured to **MTI**. All returns must have a Return Materials Authorization (RMA) number on the outside of the shipping container. This number may be obtained from **MTI** Customer Service at (800) 342-6890.

Products returned without an RMA number will not be accepted.

NOTE

IF UNIT(S) ARE RECEIVED DAMAGED, NOTIFY THE SHIPPING COMPANY IMMEDIATELY. RETAIN ALL SHIPPING CONTAINERS AND PACKING MATERIALS FOR INSPECTION.

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TST Series Surge Protective Device



ANSI/UL 1449 3rd Edition Recognized Components



**SURGE PROTECTIVE DEVICES
FOR
SERIES/PARALLEL APPLICATIONS**

COMMERCIAL INSTALLATIONS

**USER MANUAL
AND
INSTALLATION GUIDE**

IMPORTANT SAFETY INSTRUCTIONS

NOTICE: All instructions and measurements must be completed by a qualified electrician in accordance with the National Electric Code and/or other applicable state and local codes. The U.S. National Electric Code and/or applicable state/local requirements supersede these instructions.

CAUTION: HAZARDOUS VOLTAGES PRESENT

Improper installation or misapplication of these devices may result in serious injury to the installer and/or damage to electrical system(s) or related equipment. Read and understand all instructions before commencing with the installation. Protective eyewear should be worn during the installation process.

These instructions cover the following Model Numbers:

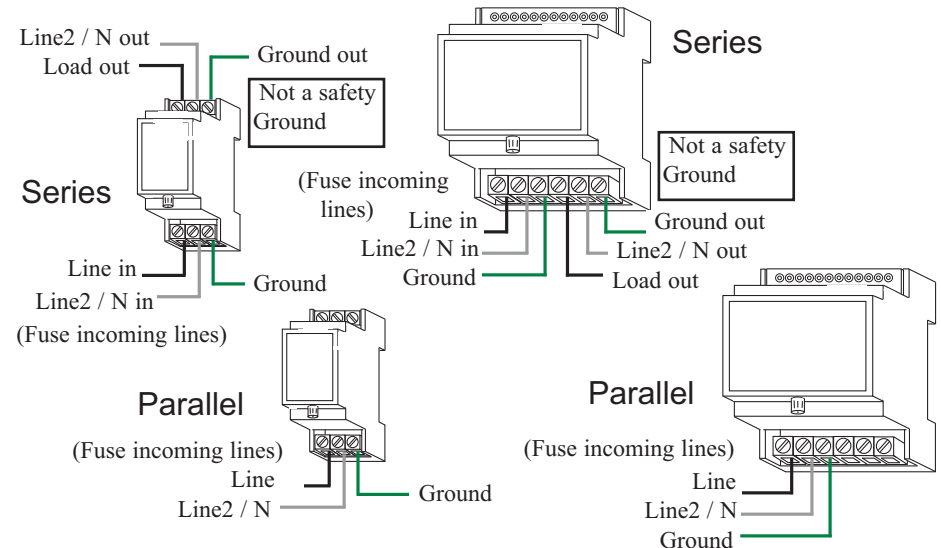
TST010/024-2P-F-1/15A	TST020/120-10-F-1/30A
TST010/048-2P-F-1/15A	TST040/120-10-F-1/30A
TST020/024-2P-F-1/30A	TST040/250-10-F-1/30A
TST020/048-2P-F-1/30A	
TST020/120-10-F-1/15A	
TST020/250-10-F-1/30A	
TST040/120-10-F-1/15A	
TST040/250-10-F-1/15A	

Units must be connected to the electrical service with appropriate ampacity Class T Fuse, rated 300 V. Equipment Safety Grounds MUST be run separately - not through the traces of the Surge Protective Device.

INSTALLATION

- 1) This document provides detailed information on how to install and operate the **TST Series** of Surge Protective Devices (SPDs).
- 2) Units should be installed per the information and illustrations provided herein.
- 3) The **TST Series** of Surge Protective Devices are installed/connected in either series or parallel with the line and the equipment to be protected.
- 4) Identified or indicated Leads/Wires must be connected exactly with respect to the power feeding/supplying the SPD and equipment. Failure to do so may result in damage to the SPD, the equipment/system or pose a danger to personnel.
- 5) Incorrect installation may significantly impair the performance of the SPD. It is particularly important that all installation procedures and guidelines be followed exactly.
- 6) Before starting any installation procedures, verify service voltages (AC or DC) with a volt meter to ensure that the correct model has been selected for the supply voltage.
- 7) DO NOT INSTALL THE SPD IF MEASURED VOLTAGE EXCEEDS UNIT RATINGS.
- 8) The SPD **MUST BE** mounted in an enclosure to assure personnel safety from exposed terminals.
- 9) REMOVE POWER FROM ELECTRICAL SYSTEM PRIOR TO INSTALLATION.
- 10) The SPD should be positioned as the last device in the circuit prior to protected equipment.
- 11) The SPD Line/Load designations are for orientation purposes only and do not effect the install.

WIRING DIAGRAMS



NOTE: Circuit Protection NOT required for neutral application.

If two (2) hots are used a second interrupt device is required.

- 12) Mechanically mount the SPD utilizing the mounting tabs or attach to din rail.
 - 13) For Series (AC) Applications
 - a) Connect "**LINE**" Side:
 - * System Ground to the terminal labeled "G".
 - * Neutral or Line 2 wire to the terminal labeled "L2".
 - * HOT wire to the terminal labeled "L1".
 - b) Connect "**LOAD**" Side:
 - * System Ground to the terminal labeled "**G**" (connect safety ground directly to enclosure ground).
 - * Neutral or Line 2 wire to the terminal labeled "L2".
 - * HOT wire to the terminal labeled "L1".
 - 14) For parallel (AC) Applications, keeping leads as short as possible -
 - * System Ground, to the terminal labeled "**G**".
 - * Neutral or Line 2 wire to the terminal labeled "L2".
 - * HOT wire to the terminal labeled "L1".
- Note:** In parallel applications, units are not current limited as they are in series applications.
For parallel applications, unused output terminals are left empty, no plugs are provided.
- 15) ENSURE THAT ALL CONNECTIONS ARE CORRECT BEFORE ENERGIZING.
 - 16) Apply power (energize). LED indicator should illuminate. If light fails to illuminate contact supplier. If LED is out, unit requires service.
 - 17) Keep this MANUAL in a safe dry place for future reference.

WARNING

ANY ALTERATIONS, TAMPERING, MISUSE OR UNAUTHORIZED REPAIRS OF THIS PRODUCT WILL VOID ITS ORIGINAL FACTORY WARRANTY.