

## GENERAL

1. This document provides detailed information on how to install and operate the CLT Series of Surge Protection Devices (SPD).
2. Incorrect installation may significantly impair the performance of the SPD. It is particularly important that all installation procedures and guidelines be followed exactly.
- 3. INSTALLATION OF THIS DEVICE SHOULD ONLY BE PERFORMED BY A QUALIFIED INSTALLER.**
4. CHECK TO ENSURE THAT ALL CONNECTIONS ARE CORRECT AND SECURE BEFORE ENERGIZING.
5. KEEP THIS MANUAL IN A SAFE, DRY PLACE FOR FUTURE REFERENCE.

### **DANGER**

#### ***HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH***

Thoroughly read and comprehend all instructions before commencing installation.

This equipment must be installed by qualified electrical personnel in accordance with all applicable codes which supersede these instructions.

Improper installation or misapplication of these devices may result in death or serious injury.

Failure to follow these instructions could result in damage to the electrical system(s) or related equipment.

Apply appropriate Personal Protective Equipment (PPE) and follow safe electrical work practices. See NFPA 70E

### **CAUTION**

#### ***HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH***

Never install this unit if it has fallen, has been dropped or looks damaged in any way. Return device to factory for diagnostic testing.

### **WARNING**

#### ***HAZARD OF EQUIPMENT DAMAGE***

This device does NOT contain serviceable parts. Do NOT attempt to test this device, damage may occur. Any alterations, tampering or misuse or unauthorized repairs of this product will void its original factory warranty.

Never install on an ungrounded system.

## WARRANTY INFORMATION

Meter-Treater, Inc. (MTI) warrants all CLT Series models to be free from defects, and will at our option repair or replace the product should it fail within three (3) years from the first date of shipment. This warranty is limited to defects in workmanship or materials, and does not cover customer damage, abuse or unauthorized modification. If this product fails or does not perform as specified, your sole recourse shall be repair or replacement as described above. Under no condition shall MTI be liable for any damages incurred by the use of this product. Damages include, but are not limited to, the following: lost profits, lost savings and incidental or consequential damages arising from the use of or inability to use this product. MTI specifically disclaims all other warranties, expressed or implied, and the installation or use of this product shall be deemed an acceptance of these terms by the user.

## WARRANTY RETURNS

All warranty and non-warranty repairs must be returned freight prepaid and insured to MTI. All returns must have a Return Authorization (RA) number on the outside of the shipping container. This number may be obtained from MTI Warranty Department (800) 342-6890. Products returned without an RA number will not be accepted.

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

Please Note:  
There are no user serviceable parts inside.



**Meter-Treater, Inc.**

QUALITY SURGE PROTECTION DEVICES SINCE 1986

Meter-Treater, Inc.  
1349 South Killian Drive • Lake Park, FL 33403  
Phone: 561.845.2007 • Fax: 561.848.2372  
Email: sales@metertreater.com  
Website: www.metertreater.com

# CLT Series Surge Protection Device

## USER MANUAL AND INSTALLATION GUIDE



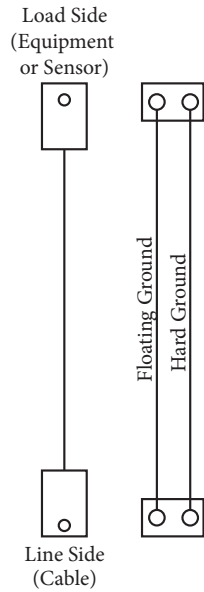
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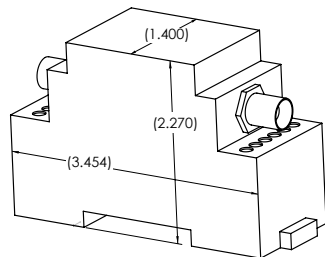
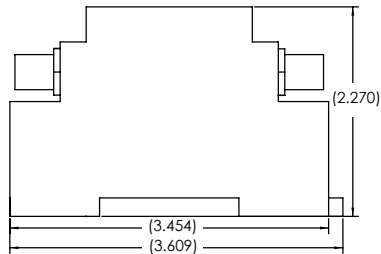
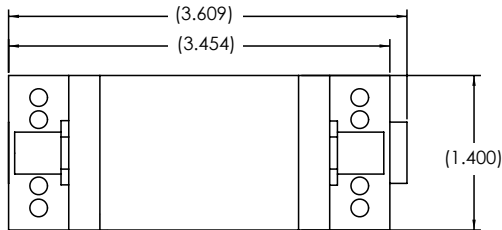
COAXIAL LINE PROTECTOR

COMMERCIAL INSTALLATIONS

## SCHEMATIC



## DIMENSIONS



## INSTALLATION

The CLT Series of products are easy to install. The following instructions clearly explain each step:

**NOTE:** Follow the installation instructions exactly; if the surge protector is improperly installed, the current limiting feature could be rendered inoperable.

CLT interface Single-Circuit DIN Models:

1. Mount the CLT surge protector in the desired location. For best performance the surge protector should be as close as practical to the equipment to be protected. The CLT DIN model may be mounted on standard DIN rail or the mounting tabs located near the terminals may be extended for direct placement using #6 fasteners placed 3-7/8 inches (98.4mm) apart.

**NOTE:** The CLT Surge protector is connected in series. The Line side connected internally to the load side directly across from it. (see diagram)

2. Connect the Load (protected) Side of the CLT surge protector to the communication equipment to be protected.
3. Connect the Line (unprotected) Side of the CLT surge protector to the incoming communication cable.
4. Connect a ground wire from the CLT Surge protector to the nearest available chassis ground. There are two grounding options for the CLT surge protector. Only one ground connection is required. Connect the ground wire at either the Line or Load side.
  - A. Hard ground: The CLT surge protector has a direct connection to the ground and is best used when the protected equipment is grounded at the same general location as the CLT surge protector.
  - B. Floating ground: The CLT surge protector is used at a remote site where a camera (or other equipment) does not reference ground or has its own ground. The floating ground is used to prevent ground current loop that can cause problems with the signal.

## CAUTION - IMPORTANT SAFETY INSTRUCTIONS

1. Never install communication wiring during a lightning storm.
2. This product is for INDOOR USE ONLY OR FOR USE INSIDE AN ENCLOSURE APPROVED FOR OUTDOOR USE.
3. Read and understand all instructions prior to installation and operation.

## WARNING

Should your equipment or building be subject to a direct lightning strike, this product will not provide complete protection.

**NOTE:** If applicable, the protected device/equipment should also have power protection because it is still vulnerable to transients on the power lines. Omitting power protection poses a continued threat of failure at the communication interface.

## GROUNDING

The unit's ground wire must be as short as possible with a minimum amount of bends. This will increase the effectiveness of the surge protector. Ground wire sizes between 20AWG and 14AWG are recommended. Larger size ground wires are more effective. Ground wire length in excess of 12 inches (30.5cm) is not recommended.

Typically the unit is hard grounded at the communication equipment and connected to the floating ground at the remote site to prevent ground loop currents due to different ground potential references.

The surge protector must not be hard grounded to ground points that are independent of AC ground.

**NOTE:** For information as to how your equipment is grounded, consult the equipment's user manual.