



DITEK Corporation  
ONE DITEK CENTER  
1720 Starkey Road  
Largo, FL 33771

# INSTALL INSTRUCTIONS

DTK-RM12ETH / DTK-RM12ETHS

DTK-RM24ETH / DTK-RM24ETHS

This Surge Protective Device (SPD) is a high performance device, designed to provide protection for sensitive electronic loads connected to service panels, fire panels, or where the SPD is directly connected to the electronic device. Maximum protection will only be achieved if the SPD is properly installed. Please read and follow the installation instructions carefully.

**NOTICE:** This SPD should be installed by a licensed contractor in accordance with the National and Local Electrical Codes and the following instructions.

## APPLICATION

Surge suppression for rack mount network equipment and systems.

## INSTRUCTIONS

Note: This device is intended to be installed indoors on the equipment rack closest to the point of use.

1. Test circuit prior to install to verify correct operation.
2. Turn off the power to the equipment to be protected.
3. This device can be mounted in a standard 19" equipment rack, or wall mounted using a hinged wall mount bracket.
4. Connect to equipment ground using the ground lug provided on rear of faceplate. Use a minimum #10 AWG wire.

Make sure the ground wire is as short as possible.

**Ground Resistance Rule:** Max ground resistance is 25 Ohms, 5 Ohms or less is optimum.

This cannot be an assumed value and must be measured to assure proper grounding.

5. Plug the RJ45 connector tipped cable from the field or supply wiring to the "IN UNPROTECTED" RJ45 jack.
6. Plug a 3' RJ45 male to RJ45 male patch cable from the "OUT PROTECTED" RJ45 jack to the equipment to be protected. The 3' patch cable will give this device time to react.
7. After all connections have been made and no hazards exist, restore power to the equipment.

**Note:** The grounding detail is not applicable when a shielded protector using STP (Shielded Twisted Pair), with properly tipped shielded RJ45 connectors, has been terminated at a properly mounted and grounded shielded rack mount surge protector. The shield is used to dissipate the excess overvoltage. For DTK-MRJETHS, shielded single channel protector, use DTK-RM12ETHS, or DTK-RM24ETHS shielded rack mount multi-channel protector.

**Surge Module Replacement:** This product is made up of 12 or 24 individual surge modules. If 1 or more channels self sacrifice, you can replace the module as follows.

1. Power down the equipment before servicing this device and remove the patch cables.
2. Disconnect the ground wire from the ground lug located on the rear of the enclosure.
3. Remove the enclosure from its mounting and place on a flat surface.
4. Remove 4 screws holding front and rear cases together. Save these screws.
5. Remove the hardware from the specific module with the bad port, remove module. Be careful to save all hardware.
6. Insert new surge module into opening aligning RJ45 connectors. The orientation should match the previous module.
7. Replace hardware and tighten.
8. Join front and rear cases together and fasten with the screws previously removed.
9. Re-connect the ground wire to the ground lug on the rear of the enclosure.
10. Re-mount the enclosure and re-install the patch cables.
11. After all connections have been made and no hazards exist, restore power to the equipment.

DITEK Technical Support Available 24/7

1-888-472-6100

[www.ditekcorp.com](http://www.ditekcorp.com)

Drawn By: K. Nguyen 5-12-16  
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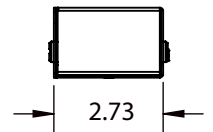
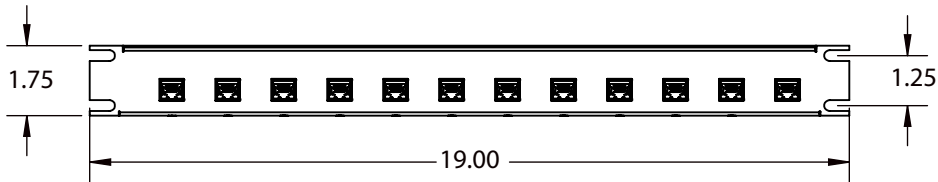
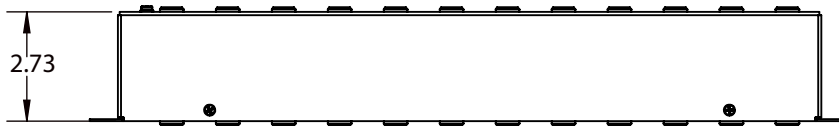
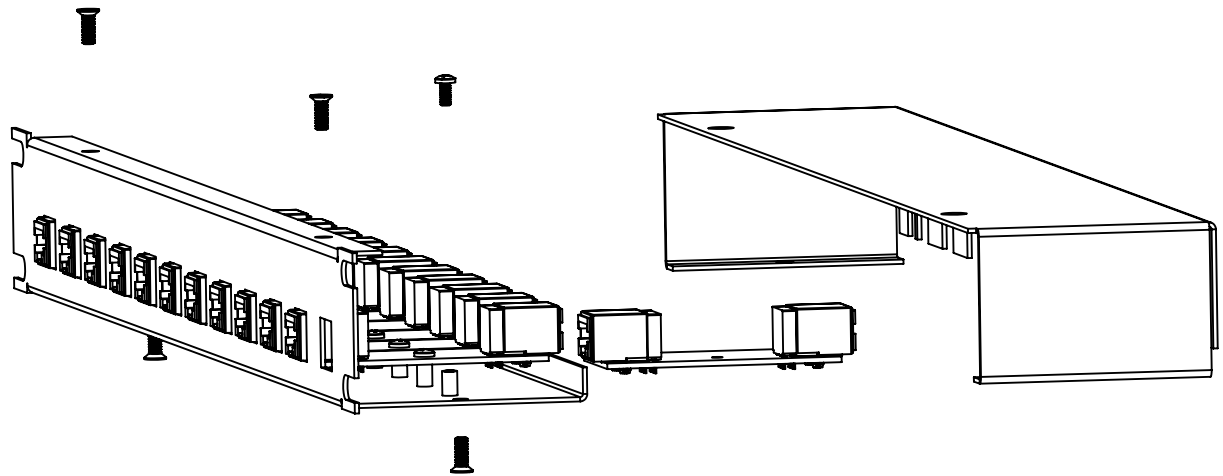
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## Illustrations Page

INSTALLATION



#10awg.  
 Ground wire  
 must as short  
 as possible

