



DITEK Corporation
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INSTALL INSTRUCTIONS

DTK-MRJPOEX

This Surge Protection 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 externally mounted PoE devices using Ethernet cable and RJ45 connectors.

INSTRUCTIONS:

Caution: Measure all voltages to insure applied voltage does not exceed the voltage rating of the unit. Improper installation voids the warranty.

This unit must be connected in series with the equipment to be protected.

1. Disconnect the power to the circuit before beginning installation.
2. Mount the device in the desired location close to the equipment to be protected using the included self tapping screws. Make sure the openings of the Liquid Tight Cordgrips are facing downward.
3. If using pre-existing cabling, cut the supply cable going to the externally mounted device.
4. Using RJ45 plugs, tip each cable prior to inserting into the cordgrips, using best practice.
5. Remove the internal sealing compression glands from the cordgrips.
6. Feed the **SUPPLY/FIELD** cable into the left hand side cordgrip (**IN UNPROTECTED**).
7. Feed the **TO EQUIPMENT** cable, to the equipment to be protected, into the right hand side cordgrip (**OUT PROTECTED**).

Note: Allow for 3 wire feet minimum distance between the DTK-MRJPOEX (**OUT PROTECTED**) and the equipment to be protected.

8. Insert each RJ45 plug into their respective RJ jacks.
9. Position the compression gland around the cable, insert into the cordgrip and tighten all hardware to assure a water tight connection.
10. If using factory pre-terminated patch cables, repeat #5 above and continue.
11. Push the ground wire through the center hole of the Liquid Tight Break-Thru Plug.
12. Crimp the included spade terminal (#12-10 AWG) onto the grounding conductor. Connect the ground lead to the ground terminal on the MRJPOEX using a #12 AWG ground conductor. Make sure to provide enough conductor length to allow for an adequate ground termination. Gently pull the wire back 1/2". The gland will seal itself. 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.

Note: If using STP (shielded twisted pair) it is not required to ground the MRJPOEX. As long as the shield from the STP is bonded at one end of the cable run, this will serve as the grounding point.

13. After all connections have been made and no hazards exist, restore power.

