



DITEK Corporation
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INSTALL INSTRUCTIONS

DTK-120/240HW

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 qualified electrician in accordance with the National and Local Electrical Codes and the following instructions.

APPLICATION: Type 1 and Type 2 SPD for hardwired parallel installations on 120/240 VAC split phase circuits with a neutral leg. Expected system voltages: L1-G = 120VAC, L2-G = 120VAC, L1-N = 120VAC, L2-N = 120VAC, L1-L2 = 240VAC.

INSTRUCTIONS:

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

Warning: No Serviceable Parts-**Attention:** Aucune pièce remplaçable ou réparable
For Use Only With A Flexible Conduit System Or Direct Connection To Panel

NOTE: Suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical Amperes, when protected by a 20 Ampere circuit breaker rated 120 Volts minimum.

1. Turn off the power at the circuit breaker or main before beginning installation.
2. If necessary, remove front cover from the panel.
3. Remove 3/4" knockout on side of panel box.
4. Unscrew nut from unit.
5. Feed all wires and the DTK-120/240HW nipple through knockout hole then through the nut, tighten nut securing the unit as shown.
6. For **Alarm/Control Panel Installation**, refer to Diagram #1. In this application, make sure the leads are as short as possible from the DTK-120/240HW to the connection point (isolated lugs or terminal). Also, allow reaction time by providing 3' of conductor length between the connection point and the panel it is protecting.
7. For **Electrical Panel/Disconnect Installation**, refer to Diagram #2. In this application, connect the DTK-120/240HW to the load side of the fuse or two pole circuit breaker. Also, make sure the leads are as short as possible with the ground wire being the shortest of all.

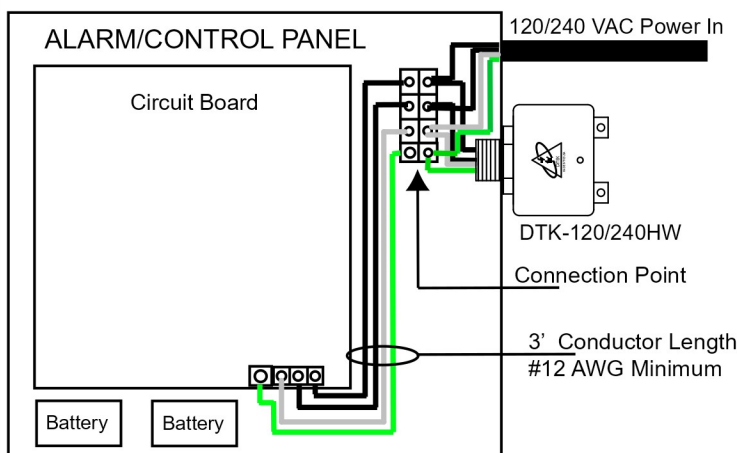
Ground Resistance Rule: Max ground resistance is 25 ohms, 5 ohms or less is optimum.

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

8. After all connections have been made and no hazards exist, replace cover and restore power.
9. This device features an internal protection that will disconnect the surge protective component but will maintain power to the load - now unprotected. If this situation is undesirable for the application, follow the manufacturer's instructions for replacing the device.

NOTE: The LED on the unit must be on, if the LED is off then the surge protection is compromised and the unit must be replaced.

**ALARM/CONTROL PANEL INSTALLATION
DIAGRAM #1**



**ELECTRICAL PANEL/DISCONNECT INSTALLATION
DIAGRAM #2**

