INSTALL INSTRUCTIONS
DTK-120HW

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 and grounded, by a licensed contractor, per the applicable requirements of the NEC and the following instructions.

APPLICATION
Type 1 and Type 2 SPD for hardwired parallel installations on 120 VAC single branch circuits.

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. 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-120HW nipple through knockout hole then through nut, tighten nut securing the unit.

6. For ALARM/CONTROL PANEL INSTALLATION, refer to diagram #1. In this application, the DTK-120HW's leads must be as short as possible to the connection point.
   Use a 3-position barrier strip, not provided. Allow the unit reaction time by maintaining no less than 3’ of conductor length between the connection point and the equipment it is protecting.

7. For ELECTRICAL PANEL/DISCONNECT INSTALLATION, refer to diagram #2. In this application, connect the DTK-120HW to the load side of the fuse or circuit breaker. Ensure the leads are as short as possible with the ground wire being the shortest of all.

8. For JUNCTION BOX INSTALLATION, refer to diagram #3. In this application, ensure the DTK-120HW’s leads are as short as possible to the connection point. Use a 3-position barrier strip, not provided. Allow the unit reaction time by maintaining no less than 3’ of conductor length between the connection point and the equipment it is protecting.

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

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

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.
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DTK-120HW

Illustrations Page

ALARM PANEL/CONTROL PANEL INSTALLATION DIAGRAM #1

120 VAC Power In

Circuit Board

Connection Point

3’ Conductor Length
#12 AWG Minimum

Battery

Battery

ELECTRICAL PANEL/DISCONNECT INSTALLATION DIAGRAM #2

Neutral Bus

White Wire

Black Wire

Green Wire

Battery

Battery

Circuit Board

Connection Point

3’ Conductor Length
#12 AWG Minimum

JUNCTION BOX INSTALLATION DIAGRAM #3

Black wires

White Wires

3’ Conduit Length
To Alarm Panel

Green Wires

120 VAC Power In

Black Wire

White Wire

Green Wire

Updated By: R. Mitchell 11-3-17
Checked By: R. Mitchell 11-3-17

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