

# Installation Instructions

## UHPOE Surge Protection Kit

### PREPARATION

1. Check contents of box.
2. Tools required: Crosshead (Phillips) screwdriver (torque driver preferred).
3. Ensure that span cable length is sufficient for run between Ethernet switch and peripheral device, accounting for bends and drip loops.
4. Identify suitable locations for mounting each of the surge protectors, as close as possible to the equipment on each end to be protected, and within 3 feet of an Earth Ground reference on each end.
5. These surge protectors are intended for use only as a secondary protector on data circuits.

### KIT CONTENTS

Quantity	Description
1	ALPU Fit Surge Protector
1	ALPU Fit Mounting Kit
1	DPR Fit Surge Protector (Mounting Hardware Included)
1	35" 10 AWG Ground Wire
1	Shielded Cat 6A Span Cable (Various Lengths Available)
2	7' Shielded Cat 6A Jumper Cables

### MOUNTING THE DPR-F140 SURGE PROTECTOR

1. DIN-Rail mounting – attach the provided mounting clip to the DPR protection module in line with the base, using the provided 4-40 screw and lock washer. Attach the assembled module to an available location on a 35mm DIN-Rail as shown in Figure 1a. To detach the module from the DIN-Rail, lift up on the lever as illustrated in Figure 1b.
2. Wall mounting – attach the provided mounting clip to the DPR protection module normal to the base to expose the auxiliary mounting hole, using the provided 4-40 screw and lock washer as shown in Figure 1c.

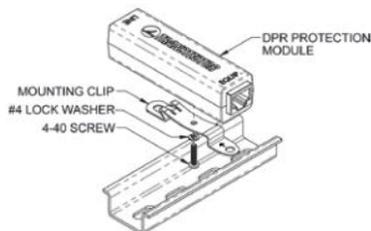


Figure 1a

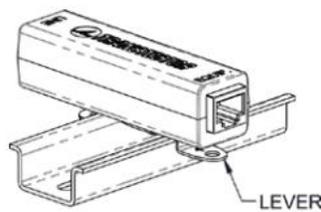


Figure 1b

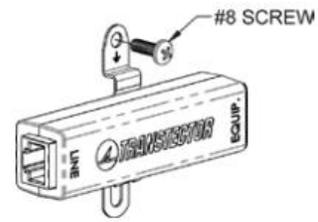


Figure 1c

## MOUNTING AND PREPARING THE ALPU-F140 SURGE PROTECTOR

1. Pole mounting – orient cable gland towards the ground. Slide hose clamp or tie wrap through two slots on back of unit as shown in Figure 2a. Align channel on rear side of unit with pole and secure with hose clamp by tightening the worm gear screw. Do not over-tighten to prevent damage to the enclosure.
2. Wall mounting – orient cable gland towards the ground. Open lid to access wall mount holes, shown in Figure 2b. If using the provided wall anchors, use the mount holes as a template to mark the locations for the anchors; pilot holes must be drilled prior to inserting the anchors with a soft hammer. Place unit over mounting location and install at least two of the provided #6 screws to a torque no greater than 1 Nm (8.8 in-lbf).
3. To prepare the cable grommet, push out the tear-away caps over the (3) cable entry points using a screwdriver as shown in Figure 2c.
4. If installing in a high-humidity area, one or both of the optional drain holes can be opened by pulling away nubs found on the cable grommet, as shown in Figure 2d.

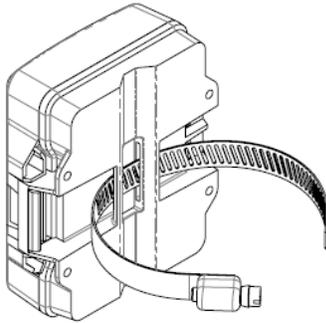


Figure 2a

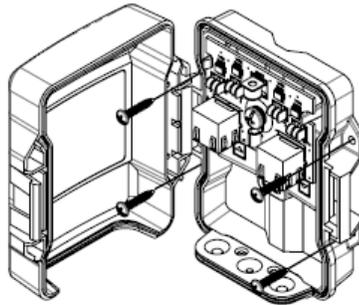


Figure 2b

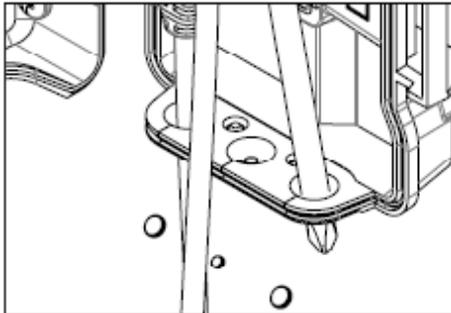


Figure 2c

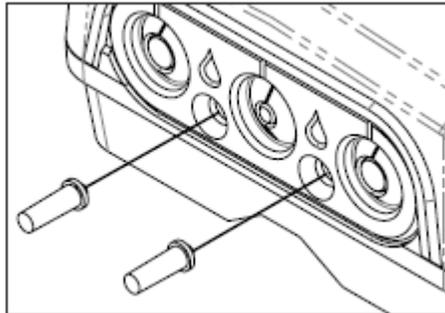


Figure 2d

## INSTALLING GROUND WIRES FOR THE SURGE PROTECTORS

1. **WARNING!** Both surge protectors must be properly bonded to a suitable system ground to ensure proper product performance.
2. To ground the DPR-F140 surge protector, the DIN-Rail to which it is attached can be bonded to a suitable ground reference for convenience. If using wall mounting, connect a ground wire between the hole marked with ground symbol on the mounting clip to a suitable system ground. In all cases, the shortest wire length possible should be used, with a minimum conductor size of #10 AWG.
3. To ground the ALPU-F140 surge protector, remove the ground lug from the unit and securely crimp one end of the provided #10 AWG ground wire into it. Install the lug/wire assembly back into the unit with a torque of 1 Nm (8.8 in-lbf)  $\pm 10\%$ . Route the ground wire into the center channel on the cable grommet, then trim and bond the other end of the ground wire to a suitable system ground.

## INSTALLING THE NETWORK CABLES

1. First, connect one of the provided jumper cables between the RJ-45 jack on the port to be protected on the Ethernet/PoE switch to the shielded RJ-45 jack labelled EQUIP on the DPR-F140 surge protector. NOTE: Shield/Drain wires on twisted pair cables do not need to be bonded separately if connecting to shielded RJ-45 jacks on protected equipment.
2. Second, connect the provided span cable between the RJ-45 jack labelled LINE on the DPR-F140 surge protector and the RJ-45 jack labelled LINE on the ALPU-F140 surge protector, laying the cable into the adjacent channel in the cable grommet. NOTE: Apply provided dielectric lube to RJ-45 plug before installing into ALPU-F140 LINE jack to enhance weatherization.
3. Last, connect the other provided jumper cable between the RJ-45 jack labelled EQUIP on the ALPU-F140 surge protector and the RJ-45 jack on the peripheral Ethernet/PoE device to be protected, laying the cable into the adjacent channel in the cable grommet. NOTE: Apply provided dielectric lube to RJ-45 plug before installing into ALPU-F140 LINE jack to enhance weatherization as shown in Figure 3a.
4. Ensure that the two network cables and ground wire are seated properly into the cable grommet, then close and secure the latch on the lid. NOTE: The provided tie-wrap can be installed onto the latch as shown in Figure 3b to provide additional protection against extreme weather.
5. Confirm that the peripheral device links with the Ethernet/PoE switch and operates as intended.

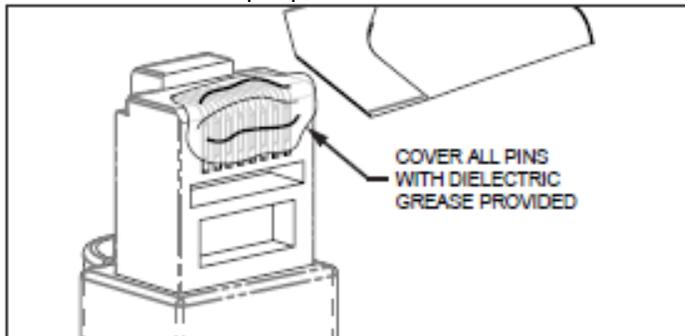


Figure 3a

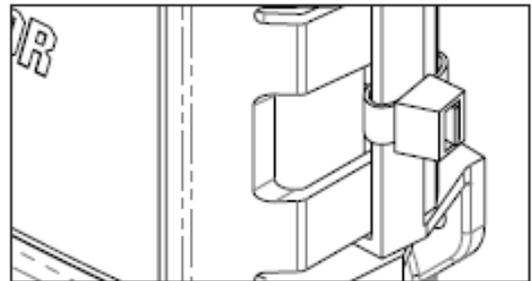


Figure 3b

Your Ethernet/PoE link is now protected!

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