

Installation Instructions

ALPU PTP INJ



an **INFINIT**E** company**

Thank you for your recent purchase of our surge protection solution. Your satisfaction with our product and service is important to us. If you have any questions, comments or concerns, please contact us at 800.882.9110 or visit our website at www.transtector.com. We look forward to continuing to serve your protection needs.

1. **IMPORTANT SAFETY INSTRUCTIONS**
2. Read and understand all instructions before installing this product. Save these instructions for future reference.

Warning

Installation Instructions

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INSTALLATION NOTES

The ALPU PTP INJ is intended to be installed indoors or outdoors, on wall or pole mount applications. The unit features mounting feet on the sides that mount on 4" center-to-center holes with #10 sized hardware. The mount foot also adapts to 4" diameter pole mounting kits with a 4.5" center-to-center holes and larger hardware. Communication cables with the RJ45 connectors already installed can feed directly into the enclosure. The enclosure features an integral retention feature that grips the cable with a screw down bracket. A pole mount adapter kit (pn 1000-1164) is available to meet installations on a wide range of pole diameters from 2" metal fence poles to 10" diameter utility poles.

INSTALLATION INSTRUCTIONS

1. Remove the cover by removing the screw on the front of the unit.
2. Mount the device using the two mounting holes, as close to the equipment to be protected as possible with the strain reliefs facing the ground as shown in Figure 1.
3. Connect one Ethernet cable between the Transceiver and the protection module using the "SURGE" RJ45 jack.
4. Connect one Ethernet cable between the Powered End Station and the protection module using the "PROTECTED" RJ45 jack.
5. For Power-over-Ethernet applications, connect the external power & return conductors (± 70 Vdc / 1A max) to the screw terminals for the appropriate signal pair lines to be powered.
For IEEE 802.3-2012 Mode A, connect the power and return conductors (up to 14 AWG/2.5mm²) to the "Mode A" connector. This will carry the power on signal pairs 1/2 and 3/6.
For IEEE 802.3-2012 Mode B, connect the power and return conductors to the "Mode B" connector. This will carry the power on signal pairs 4/5 & 7/8. See the Application Diagram (Figure 2) for further information.
Note: For custom applications, any two of the four screw terminals can be used to carry the power and return conductors across different pair groupings as required.
6. The ALPU incorporates a 1/4-20 ground stud. Attach a ground reference wire (minimum 8 AWG) as short as possible (less than 3 feet) between this stud and the site grounding point. The two optimum ground connection points are shown on the metal enclosure (see Figure 1).
Refer to local codes and equipment manufacturers standards before installation.
7. Replace cover.

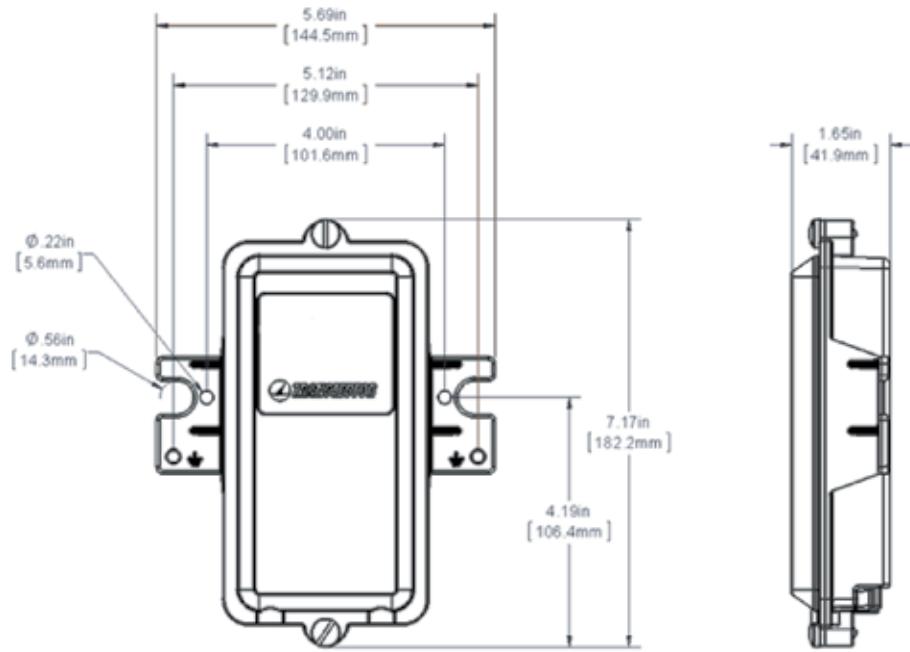


Figure 1 - Mechanical Outline Drawing (in[mm])

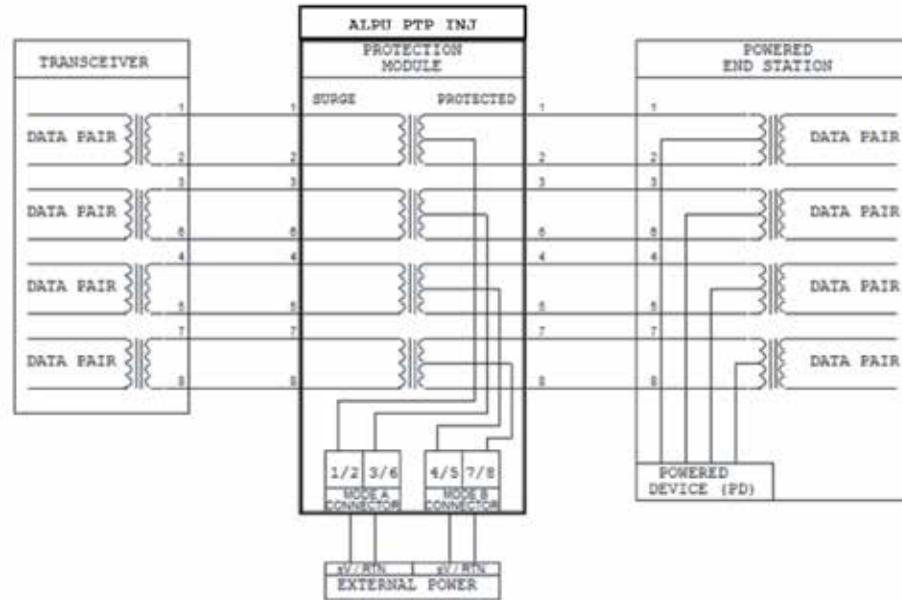


Figure 2 - Application Diagram

1200-452 Rev B