

Trove2M2WP

- NEMA 4/IP 66 Rated outdoor enclosure with Altronix and Mercury/LenelS2 backplane

TM2X

- Altronix/Mercury/LenelS2 backplane only

Installation Guide



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Rev. T2M2WP081426

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove2M2WP accommodates various combinations of Mercury/LenelS2 boards with or without Altronix power supplies and sub-assemblies for access systems in a NEMA 4/IP 66 Rated outdoor enclosure.

Specifications:

Trove2M2WP :

Outdoor enclosure with TM2X Altronix/Mercury/LenelS2 backplane.

Accommodates the following Mercury/LenelS2 controllers:

LP1501, MR51e, MR50, LP1502, MR4502, MR52, MR16IN, MR16OUT, LP2500, MUX8

Accommodates the following Altronix power supplies and/or sub-assemblies: eFlow or ULX Power Supply/Chargers, Tango1B, AL175ULB, AL175ULB, ACM4(CB), VR6, PDS8(CB), PDS16(CB), PD4UL(CB), PD8UL(CB).

- **16 Gauge Backplane (TM2X):**

- Dimensions (H x W x D): 16.75" x 14.875" x 0.3125" (425.5mm x 377.8mm x 7.9mm).

- **Enclosure (WP5):**

- Hot compression molded, halogen free, self-extinguishing fiberglass reinforced polyester.

- Stainless steel continuous hinge and stainless steel padlockable latches.

- Dimensions (H x W x D): 19.31" x 17.32" x 9.58" (490.4mm x 439.9mm x 243.3mm).

- Includes mounting hardware.

TM2X:

16 Gauge Backplane.

Accommodates the following Mercury/LenelS2 controllers:

LP1501, MR51e, MR50, LP1502, MR4502, MR52, MR16IN, MR16OUT, LP2500, MUX8

Accommodates the following Altronix power supplies and/or sub-assemblies: eFlow or ULX Power Supply/Chargers, AL175ULB, T2428100, ACM4, ACM4CB, VR6, PDS8, PDS8CB, PD4UL, PD4ULCB, PD8UL or PD8ULCB.

- Dimensions (H x W x D): 16.75" x 14.875" x 0.3125" (425.5mm x 377.8mm x 7.9mm).

See TM2X Position Charts on Pg. 3 for the list of compatible power supplies and sub-assemblies.

Battery Backup:

- Trove2M2WP enclosure accommodates up to two (2) 12VDC/12AH batteries.

Accessories

PMK2 Pole Mount Kit (order separately)

PMK2 pole mount kit is designed to simplify installation of outdoor units. It accommodates 2" - 8" (diameter) poles or 5" (127mm) square poles.

Kit includes:

- Two (2) powder coated steel mount brackets.
- Four (4) stainless steel bolts and lock washers.
- Two (2) wormgear quick release straps.

Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI and with all local codes and authorities having jurisdiction.

1. Remove backplane from enclosure prior to drilling. Do not discard hardware.

Note: Make sure that hardware will not interfere with components of the circuit board.

2. Mark and drill desired inlets on the enclosure to facilitate wiring. Maximum NEMA type 4X rated fittings to be used are 0.5".

Follow manufacturer's specifications for the appropriate size opening.

Note: Inlets for conduit fittings should only be made on the bottom of the enclosure.

UL Listed NEMA type 4X rated conduit connector/hubs shall be used for the appropriate size inlets.

3. Mounting NEMA4/4X rated enclosure (*Enclosure Dimensions, pg. 8*):

Wall mount: Mount unit in desired location. Mark and drill holes to line up with the top and bottom holes of the enclosure flange. Secure enclosure with appropriate fasteners (e. g. screws and anchors; bolts and locking nuts, etc.) that are compatible with mounting surface and are of sufficient length/construction to ensure a secure mount (*Fig. 3, pg. 6*).

Pole Mount: Refer to *Figs. 4 - 8, pg. 6*.

Note: All inlets for conduit fittings should be on the bottom of the enclosure.

4. To facilitate wire entry utilize weather-tight NEMA rated connectors, bushings, and cable.

Installation Instructions for Sub-Assemblies to Trove2M2WP/TM2X:

Altronix Power Supplies/Chargers and/or Sub-Assemblies:

1. Power Supply/Charger:

- Fasten two (2) nylon and two (2) metal spacers (supplied) to pem location (1) (*Fig. 1, pg. 4*).
- Secure board to spacers using pan head screws (supplied) (*Fig. 1a, pg. 4*).

2. Sub-Assemblies:

- Fasten spacers (supplied) to pem location (2) as shown on *Fig. 1, 2, pg. 4, 5*.
- Secure boards to spacers using pan head screws (supplied) (*Fig. 1a, 2a, pg. 4, 5*).

3. For detailed information about installing and connecting Altronix sub-assemblies refer to the individual *Installation Guides*.

Mercury/LenelS2 Sub-Assemblies:

- 4. Fasten spacers (supplied) to pem locations (A), (B), (C) or (D) as shown on *Fig. 1, 2, pg. 4, 5* depending on the sub-assembly module.
- 5. Secure boards to spacers using pan head screws (supplied).
- 6. Fasten backplane to WP5 enclosure utilizing provided hardware.

Position Chart for the Following Altronix Models:

Altronix Board	Pem Mounting
AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, Tango1B	①
AL175ULB, AL175ULB, ACM4(CB), VR6, PDS8(CB), PDS16(CB), PD4UL(CB), PD8UL(CB)	②

Position Chart for the Following Mercury/LenelS2 Models:

Mercury/LenelS2 Access Controller	Pem Mounting
LP1502, LP4502, MR52, MR16IN, MR16OUT	Ⓐ
LP2500, MUX8	Ⓑ
LP2500, MUX8	Ⓒ
LP1501, MR62e	Ⓓ

Fig. 1

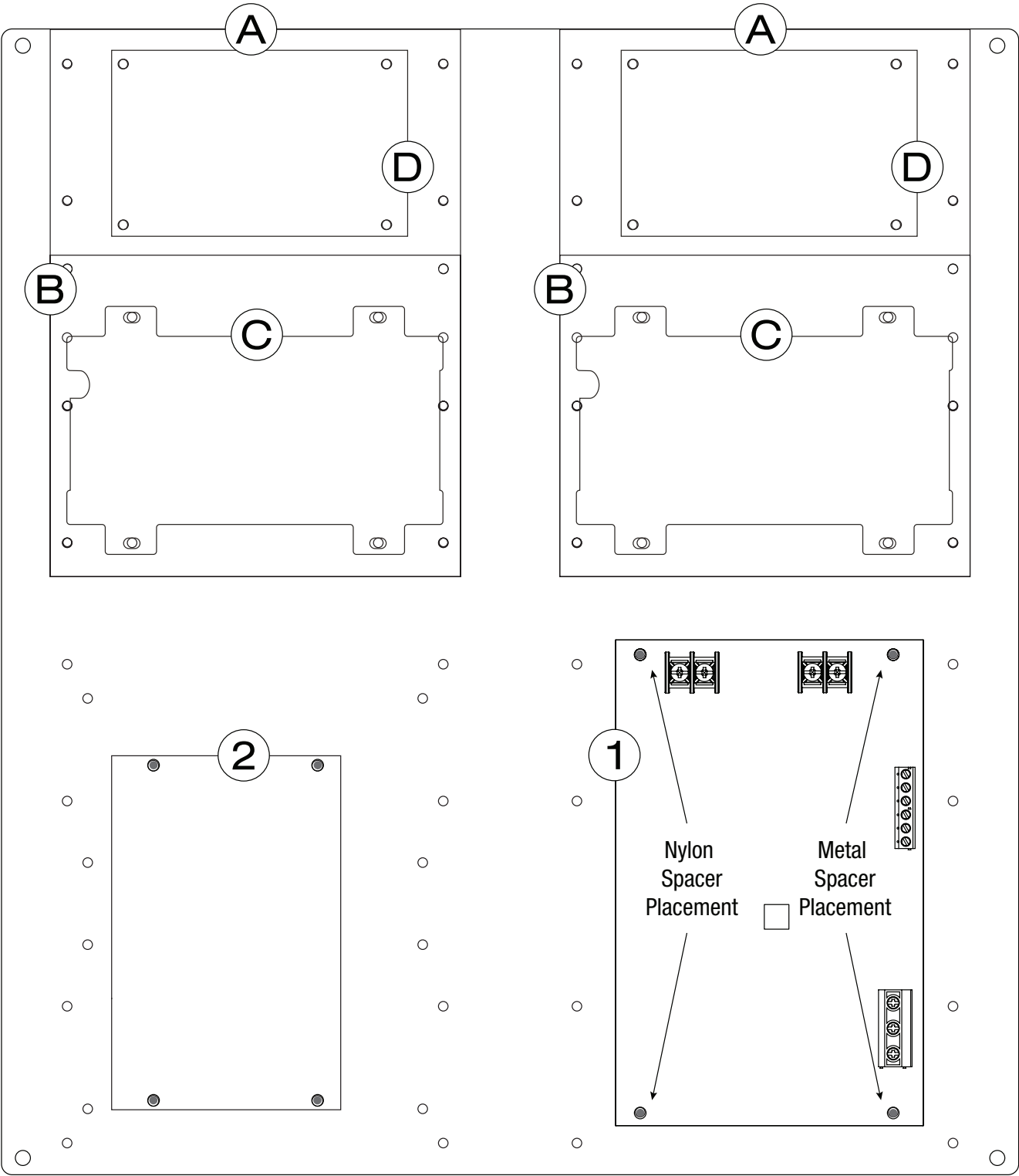


Fig. 1a

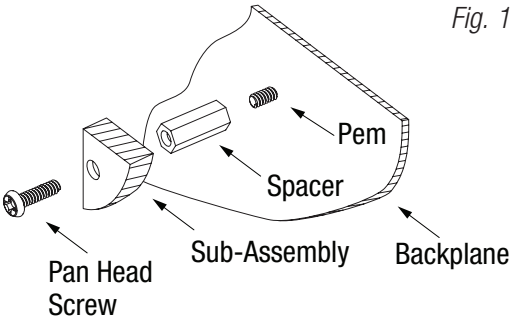


Fig. 2

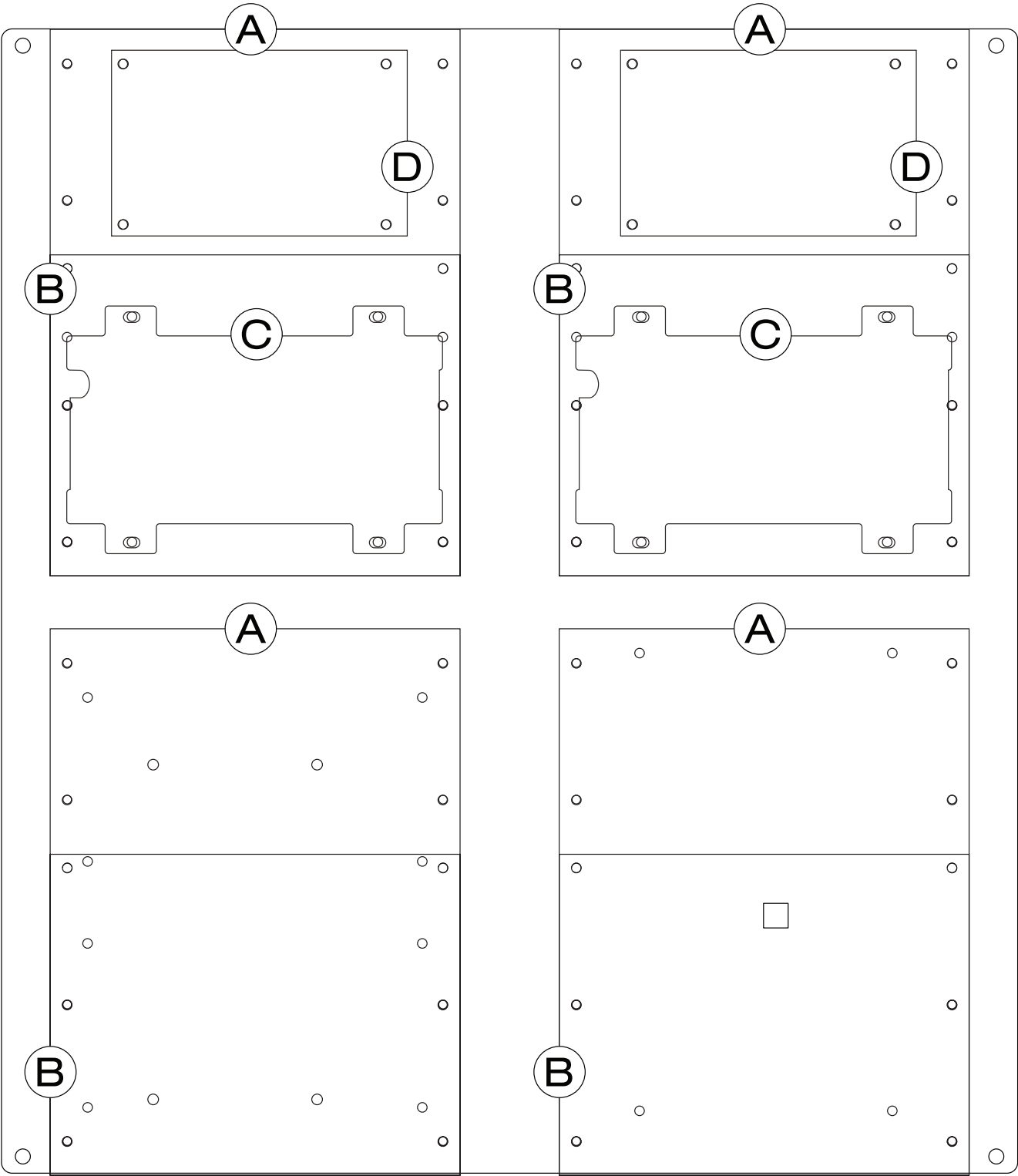
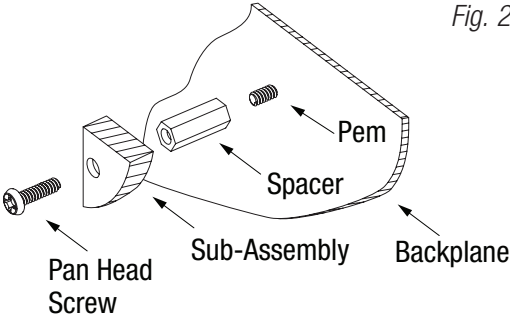


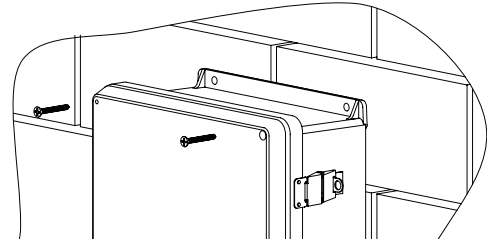
Fig. 2a



Wall Mount Installation

- 1- Place unit at desired location and secure with mounting screws *(not included)* (Fig. 3, pg. 6).

Fig. 3



Pole Mounting Using Optional Pole Mount Kit PMK2 (not included):

This installation should be made by qualified service personnel. This product contains no serviceable parts. PMK2 is intended for use with Altronix outdoor rated power supplies or accessories housed in WP5 enclosures. Brackets are designed for use with the Wormgear Quick Release Straps (two included).

1. Thread one (1) wormgear quick release strap through the slots on the back of a mounting bracket (Fig. 4, pg. 6).
2. Once the desired height of the top Pole Mount bracket is achieved, tighten the straps down by sliding open end of the strap through the locking mechanism on the strap, then tighten the screw with flat head screwdriver or 5/16" hex socket driver (Fig. 5, pg. 6 and Fig. 7, pg. 6).

Fig. 4

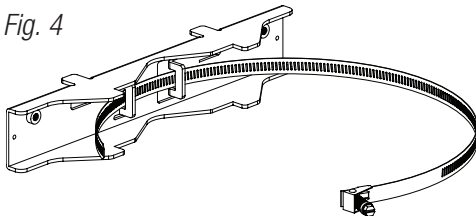


Fig. 5

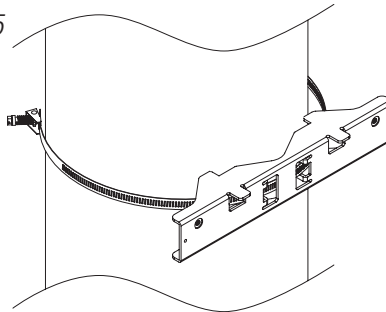
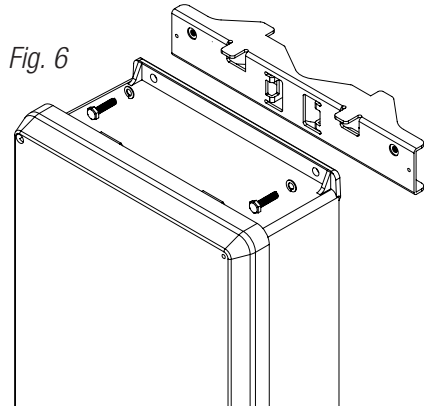


Fig. 6



3. Attach the bottom bracket to the enclosure by inserting bolts through the flange of the enclosure and into the bracket, tightening bolts with a 7/16" hex socket (Fig. 6, pg. 6).
4. Thread the second wormgear quick release strap through the slots on the back of the bottom mounting bracket (Fig. 4, pg. 6).
5. Mount enclosure onto the top bracket by inserting bolts through flange of the enclosure and into the bracket, tightening bolts with a 7/16" hex socket (Fig. 6, pg. 6).
6. Tighten the straps of the bottom bracket down by sliding the open end of the strap through the locking mechanism on the strap, then tighten screw with flat head screwdriver or 5/16" hex socket driver (Fig. 4, pg. 6).
7. Clip excess straps.

Fig. 7

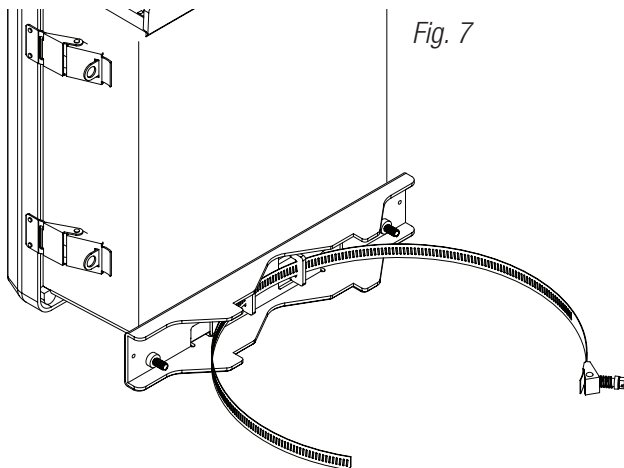


Fig. 8

2" to 8" (50.8mm to 203.2mm)
diameter round pole

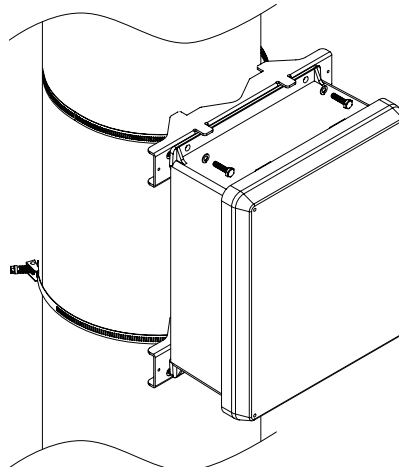
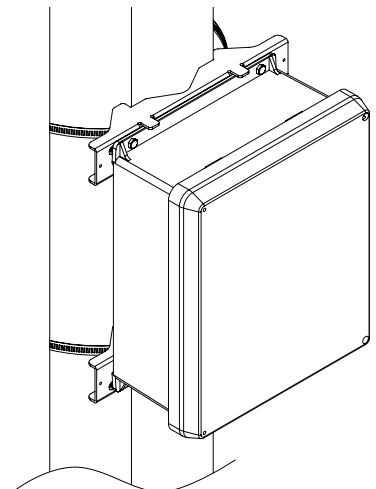


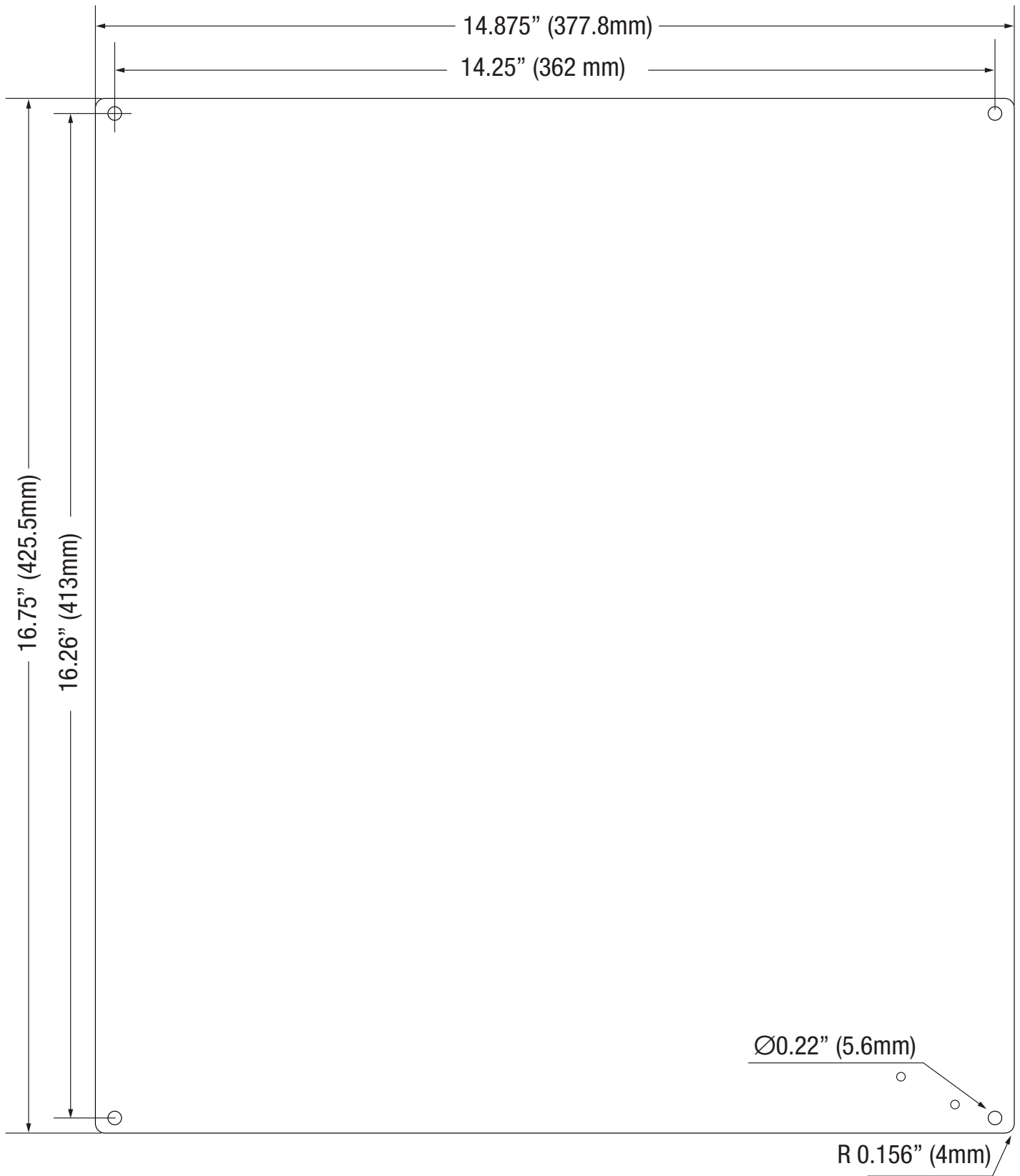
Fig. 8a

5" (127mm) square pole



TM2X Drawing and Dimensions (H x W x D approx.):

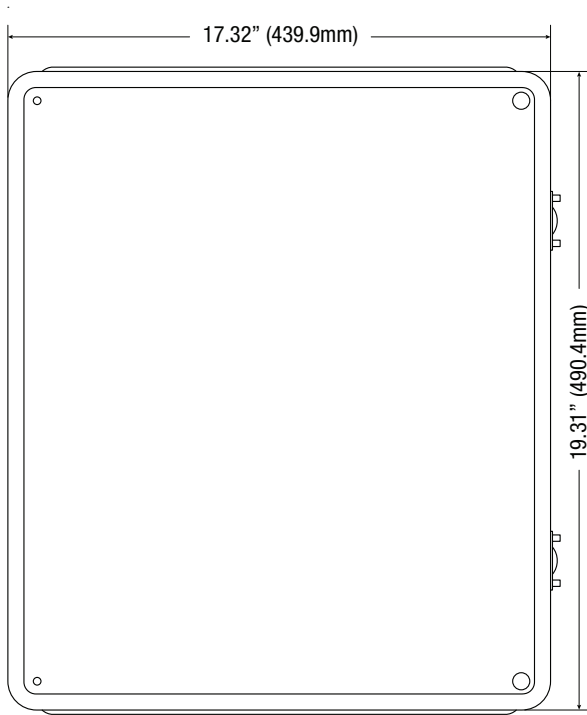
10.75" x 8.875" x 2.375" (273.1mm x 225.4mm x 60.3mm)



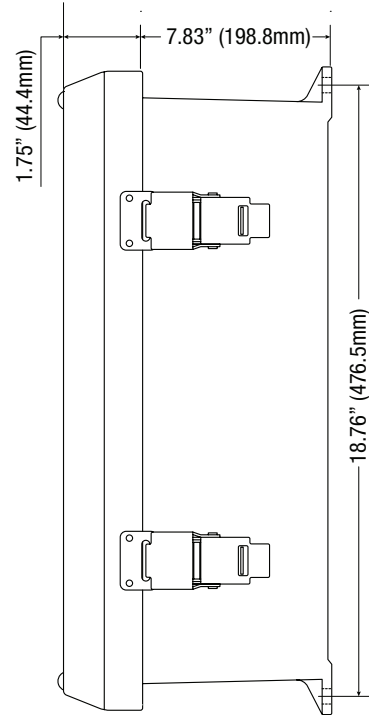
Enclosure Dimensions (H x W x D approximate):

19.31" x 17.32" x 9.58" (490.4mm x 439.9mm x 243.3mm)

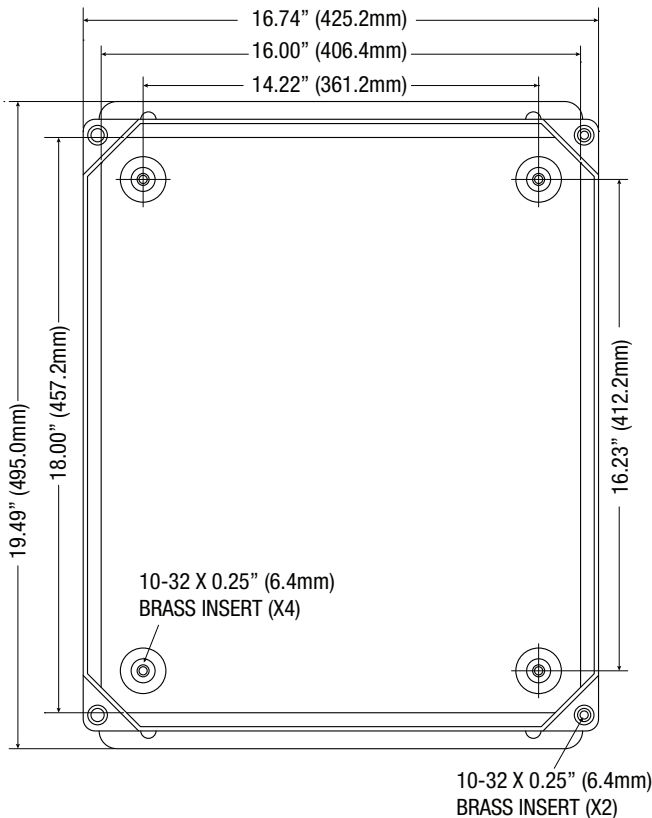
FRONT VIEW



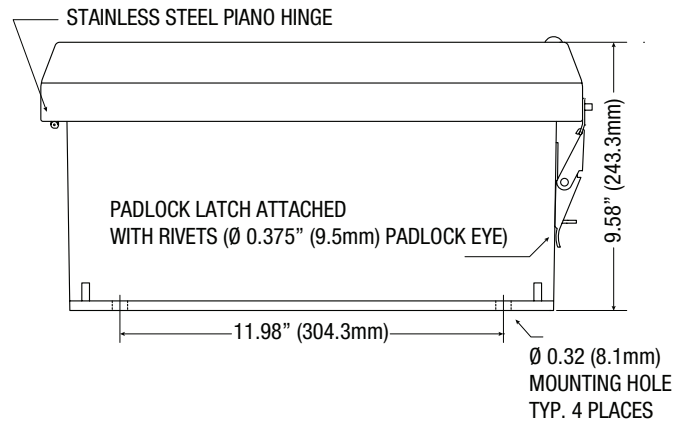
RIGHT SIDE VIEW



FRONT VIEW COVER REMOVED



END VIEW



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

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