Altronix TROVE Access and Power Integration Solutions Installation Guide

Altronix TROVE Access and Power Integration Solutions

Contents

Overview:

Altronix Trove1PH1 and Trove2PH2 accommodate various combinations of Openpath boards with or without Altronix power supplies and subassemblies for access systems.

Specifications:

- 16 Gauge backplane and enclosure with ample knockouts for convenient access.

Trove1PH1

Trove1 enclosure with TC1 Altronix/Openpath backplane

- Includes: tamper switch, cam lock, lock nuts, and mounting hardware.
- Enclosure Dimensions (H x W x D): 18" x 14.5" x 4.625" (457mm x 368mm x 118mm).

TC1

- Altronix/Openpath backplane onlyIncludes mounting hardware.
- Dimensions (H x W x D): 16.625" x 12.5" x 0.3125" (422.3mm x 317.5mm x 7.9mm).

TC1 accommodates a combination of the following:

- **Altronix Modules:**
  – One (1) AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2,
  eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB.
  – One (1) ACM8(CB), ACMS(CB), LINQ8ACM(CB).
  – Up to two (2) ACM4(CB), LINQ8PD(CB), MOM5, PD4UL(CB),
  PD8UL(CB), PDS8(CB), VR6.
- **Openpath Modules:**
  One (1) OP-ACC, one (1) OP-16EM and
  either one (1) OP-EX-4E or one (1) OP-EX-8E.

Trove2PH2

Trove2 enclosure with TCV2 Altronix/Openpath backplane

- Includes: tamper switch, cam lock, lock nuts, and mounting hardware.
- Enclosure Dimensions (H x W x D): 27.25" x 21.75" x 6.5" (692.2mm x 552.5mm x 165.1mm).

TCV2
Altronix/Openpath backplane only

- Includes mounting hardware.
  Dimensions (H x W x D): 25.375" x 19.375" x 0.325" (644.5mm x 482.6mm x 8.3mm).

TCV2 accommodates a combination of the following:

- **Altronix Modules:**
  – Two (2) AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2,
  eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB.
  – Up to two (2) ACM8(CB), ACMS8(CB), LINQ8ACM(CB).
  – Up to two (2) ACM4(CB), LINQ8PD(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), VR6.
- **Openpath Modules:**
  Two (2) OP-ACC, two (2) OP-16EM and either two (2) OP-EX-4E or two (2) OP-EX-8E.

Agency Listings:

- UL 294 – 6th edition: Line Security I, Destructive Attack I, Endurance IV, Stand-by Power II*.
  *Stand-by Power Level I if no battery is supplied.
- This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.

- CE European Conformity.

Installation Instructions for Trove1 and Trove2:

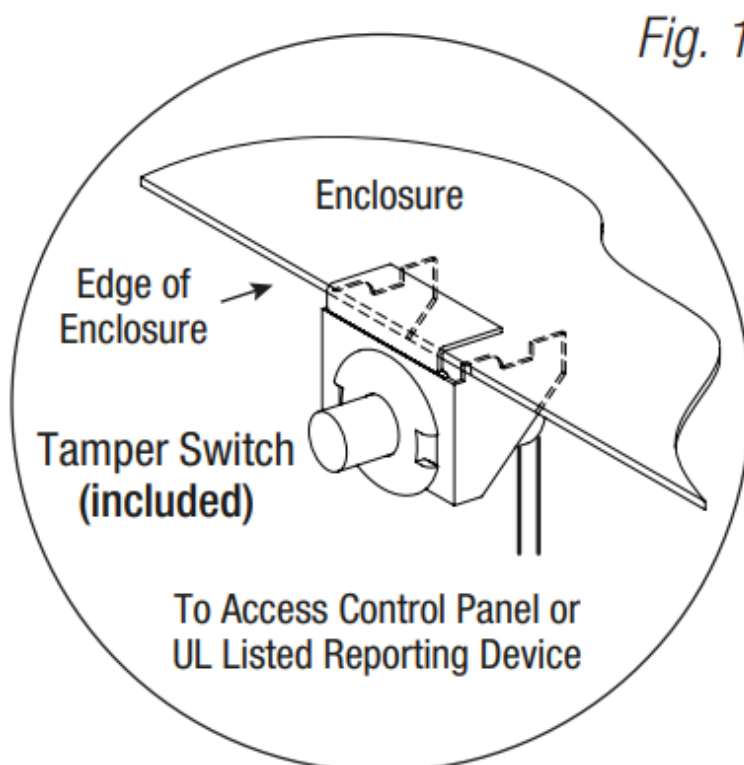1. Remove backplane from enclosure prior to mounting (do not discard hardware).
2. **Trove1PH**1 (Pg. 7):

   Mark and predrill holes on the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws; level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws.

   Trove2PH2 (Pg. 8):

   Mark and predrill holes on the wall to line up with the top three keyholes in the enclosure. Install three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the three upper screws; level and secure. Mark the position of the lower three holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the three lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switch (Altronix Model TS112 or equivalent) in desired location, opposite hinge. Slide the tamper switch bracket onto the edge of the enclosure approximately 2″ from the right side (Fig. 1, pg. 2).

Fig. 1

Enclosure

Edge of Enclosure

Tamper Switch (included)

To Access Control Panel or UL Listed Reporting Device

Trove1PH1 / TC1 / Trove2PH2 / TCV2 Installation Guide

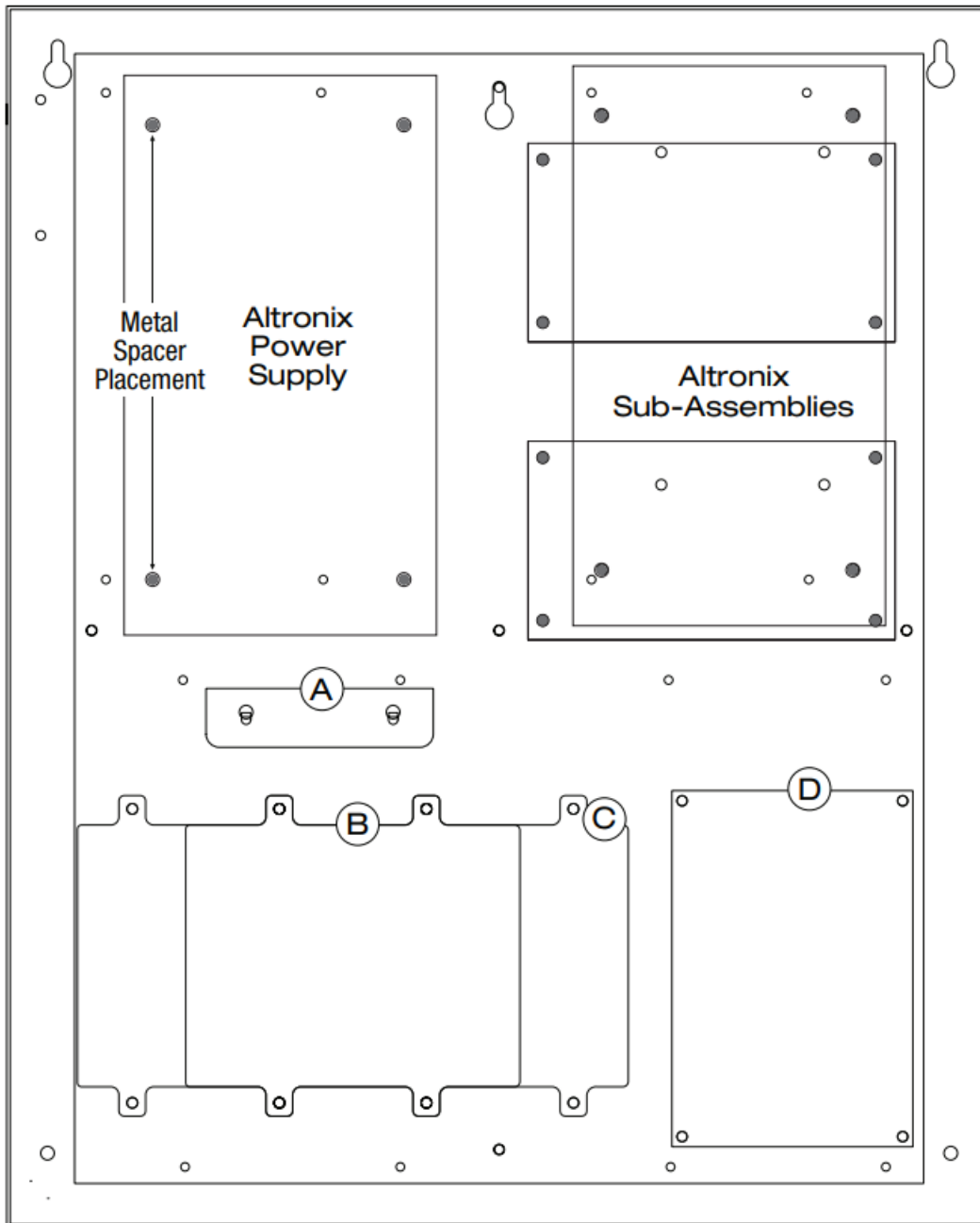   Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the door of the enclosure
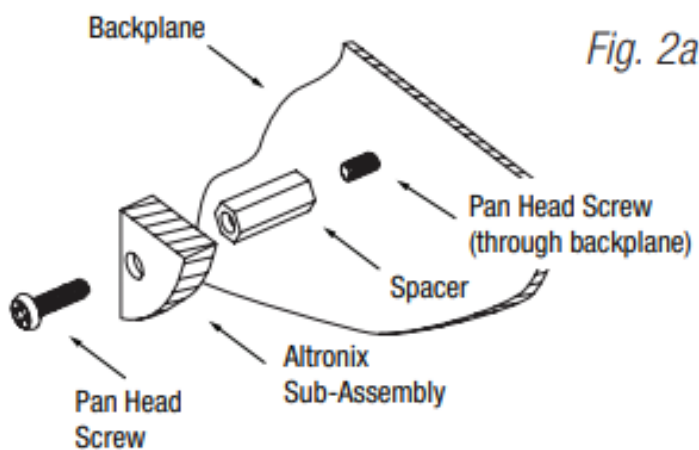4. Mount Altronix/Openpath modules to TC1 or TCV2 backplane, refer to pages 3, 4.

TC1: Configuration of Altronix Power Supply, Sub-Assemblies and Openpath Modules

1. Push 5/16" pan head screws (provided) through the wholes in the backplane that match the pattern for Altronix Power Supply/ Charger and/or sub-assemblies from the backside of backplane. Screw spacers onto screws. Fasten metal spacers in the correct locations to provide proper grounding, see below (Fig. 2, pg. 3).

Fig. 2 - **Trove1PH1/TC1 Configurations**

2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 2a, pg. 3).

Fig. 2a

3. Mount appropriate Openpath boards into the correct positions by postioning pre-mounted spacers over appropriate holes on the backplane and depressing down on board to secure spacer to the backplane (Fig. 2, pg.3).
4. Fasten TC1 backplane to Trove1 enclosure utilizing pan head screws (provided).
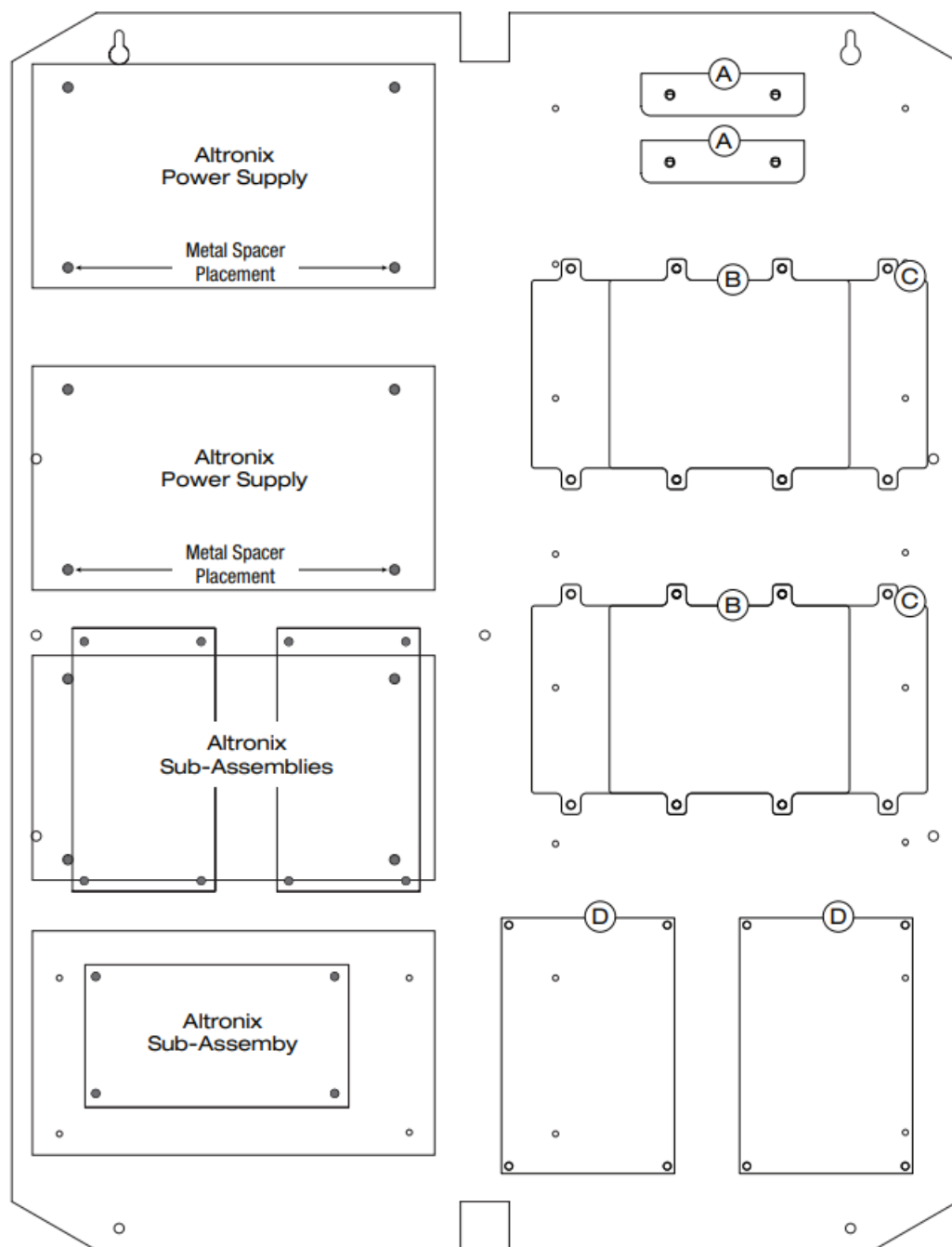
Access Controller Position Chart for the Following Openpath Modules:

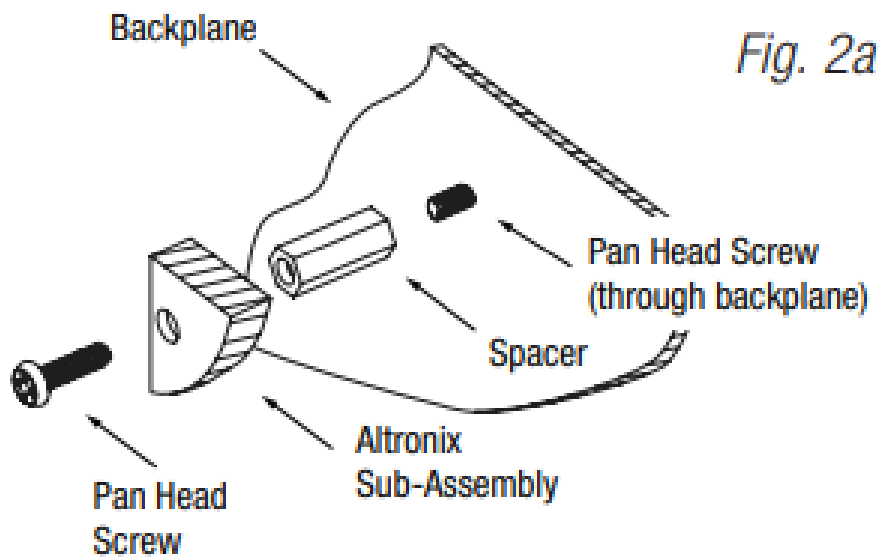| Openpath	Mounting Position
OP-ACC	A
OP-EX-4E	B
OP-EX-8E	C
OP-16EM	D

TCV2: Configuration of Altronix Power Supply, Sub-Assemblies and Openpath Modules

1. Push 5/16" pan head screws (provided) through the wholes in the backplane that match the pattern for Altronix Power Supply/ Charger(s) and/or sub-assemblies from the backside of backplane. Screw spacers onto screws. Fasten metal spacers in the correct locations to provide proper grounding, see below (Fig. 3, pg. 4).

Fig. 3 - Trove2PH2/TCV2 Configurations

2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 3a, pg. 4)

Fig. 2a

3. Mount appropriate Openpath boards into the correct positions by postioning pre-mounted spacers over appropriate holes on the backplane and depressing down on board to secure spacer to the backplane (Fig. 3, pg.4).

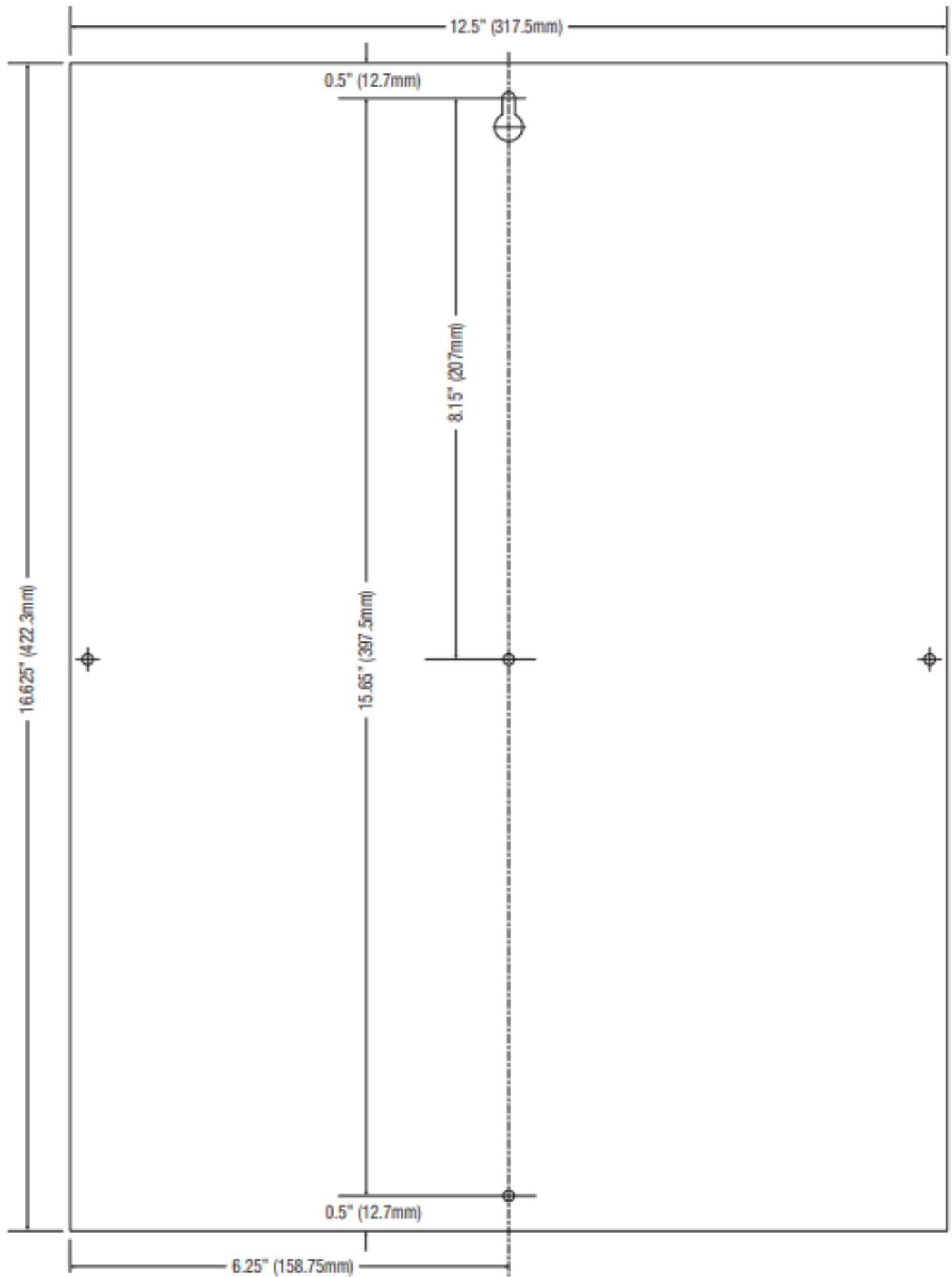4. Fasten TCV2 backplane to Trove2 enclosure utilizing pan head screws (provided).

Access Controller Position Chart for the Following Openpath Modules:

Openpath	Mounting Position
OP-ACC	A
OP-EX-4E	B
OP-EX-8E	C
OP-16EM	D

TC1 Dimensions

TC1 Dimensions
16.625" x 12.5" x 0.3125" (422.3mm x 317.5mm x 7.9mm)

12.5" (317.5mm)

0.5" (12.7mm)

8.15" (207mm)

16.625" (422.3mm)

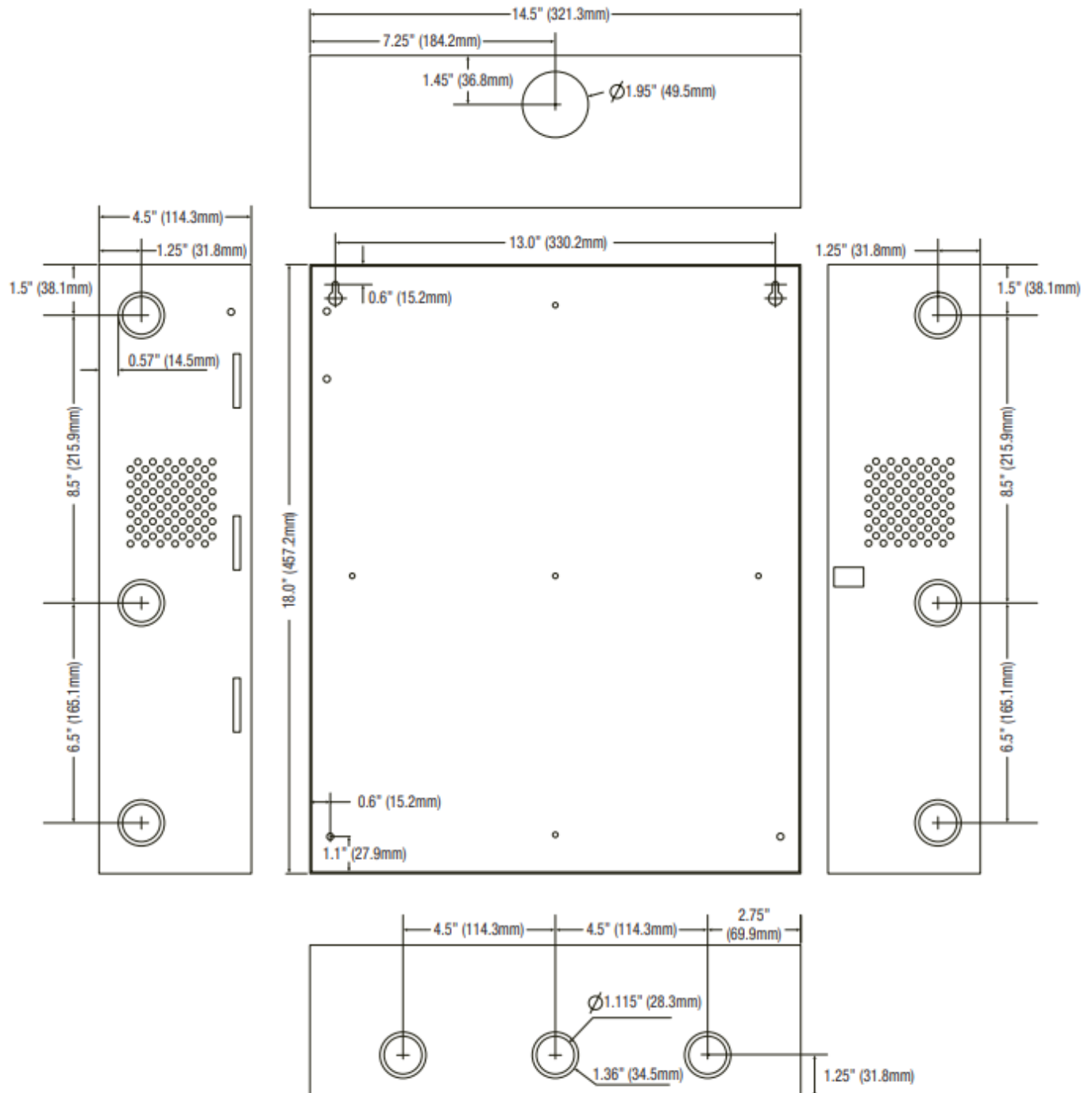15.65" (397.5mm)

0.5" (12.7mm)

6.25" (158.75mm)

Trove1PH1 Enclosure Dimensions (H x W x D):

18" x 14.5" x 4.625" (457mm x 368mm x 118mm)

Trove1PH1 Enclosure Dimensions (H x W x D):
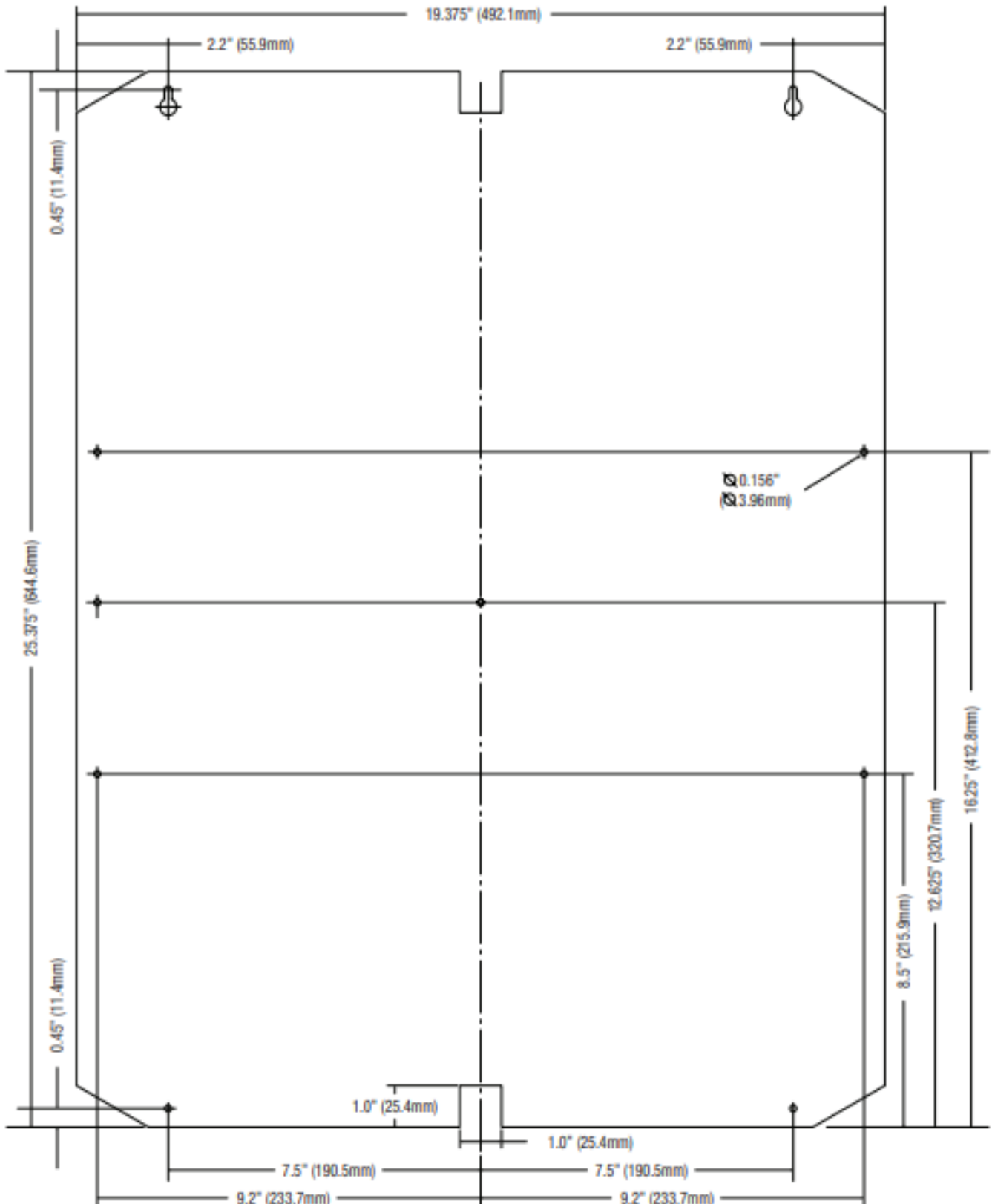18" x 14.5" x 4.625" (457mm x 368mm x 118mm)

TCV2 Dimensions

25.375" x 19.375" x 0.325" (644.5mm x 482.6mm x 8.3mm)

TCV2 Dimensions

25.375" x 19.375" x 0.325" (644.5mm x 482.6mm x 8.3mm)

19.375" (492.1mm)

2.2" (55.9mm)   2.2" (55.9mm)

0.45" (11.4mm)

25.375" (644.6mm)

⌀0.156"
(⌀3.96mm)

16.25" (412.8mm)

12.625" (320.7mm)

8.5" (215.9mm)

0.45" (11.4mm)

1.0" (25.4mm)

1.0" (25.4mm)

7.5" (190.5mm)   7.5" (190.5mm)

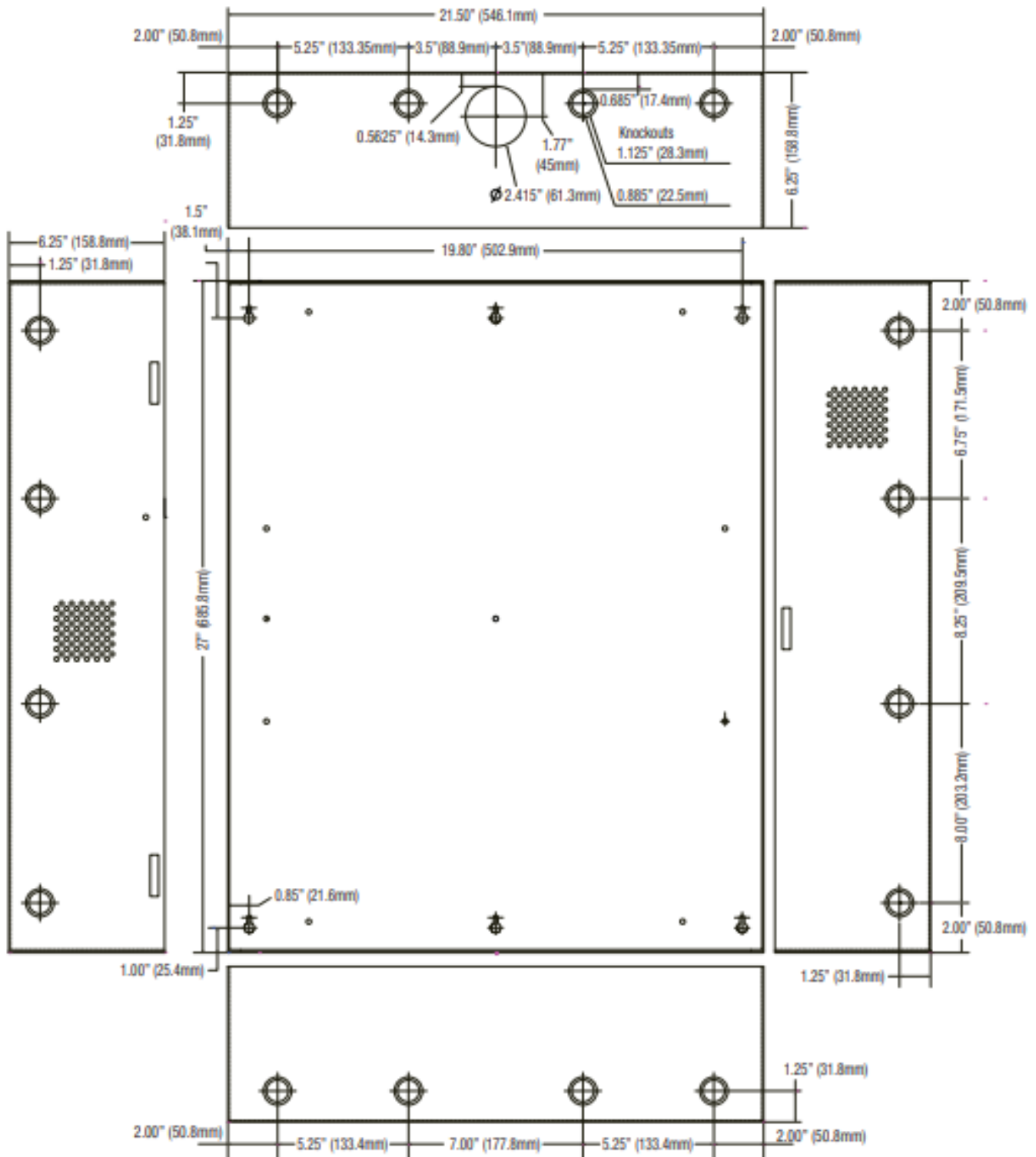9.2" (233.7mm)   9.2" (233.7mm)

Trove2PH2 Enclosure Dimensions (H x W x D):

27.25" x 21.75" x 6.5" (692.2mm x 552.5mm x 165.1mm)

Trove2PH2 Enclosure Dimensions (H x W x D):
27.25" x 21.75" x 6.5" (692.2mm x 552.5mm x 165.1mm)

21.50" (546.1mm)

2.00" (50.8mm)
5.25" (133.35mm) 3.5"(88.9mm) 3.5"(88.9mm) 5.25" (133.35mm)
2.00" (50.8mm)

1.25" (31.8mm)
0.5625" (14.3mm)
Ø0.685" (17.4mm)
Knockouts
1.125" (28.3mm)
1.77" (45mm)
6.25" (158.8mm)
Ø 2.415" (61.3mm)
0.885" (22.5mm)

1.5" (38.1mm)

6.25" (158.8mm)
1.25" (31.8mm)
19.80" (502.9mm)

2.00" (50.8mm)

6.75" (171.5mm)

27" (685.8mm)

8.25" (209.5mm)

8.00" (203.2mm)

2.00" (50.8mm)

0.85" (21.6mm)

1.00" (25.4mm)
1.25" (31.8mm)

1.25" (31.8mm)

2.00" (50.8mm)
5.25" (133.4mm) 7.00" (177.8mm) 5.25" (133.4mm)
2.00" (50.8mm)

Documents / Resources

Altronix TROVE Access and Power Integration Solutions [pdf] Installation Guide
Trove1PH1, TC1, Trove2PH2, TCV2, TROVE Access and Power Integration Solutions, TROVE, Access and Power Integration Solutions, Access Integration Solutions, Power Integration Solutions, Integration Solutions

References

- **Altronix Home**