TROVE™
Access & Power Integration

Trove2Z2
- Trove2 enclosure with Altronix/ZKTeco backplane (TDR2)

TDR2
- Altronix/ZKTeco backplane only

Installation Guide

SECURITY UL LISTED   **SECURITY** c UL LISTED   **SIGNALING** UL LISTED   CE

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Trove2Z2_Rev. 050923

Altronix®
More than just power.™

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Trove2Z2 accommodates various combinations of ZKTeco door controllers with or without Altronix power supplies and accessories for access control systems.

Specifications:

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

Trove2Z2

Trove2 enclosure with Altronix/ZKTeco backplane
• Includes: tamper switch, cam lock, board 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).
  Accommodates up to four (4) 12VDC/7AH batteries.

TDR2

Altronix/ZKTeco backplane only
• Includes board mounting hardware.
  Dimensions (H x W x D): 25.375" x 19.375" x 0.3125" (644.6mm x 492.1mm x 7.9mm).

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.
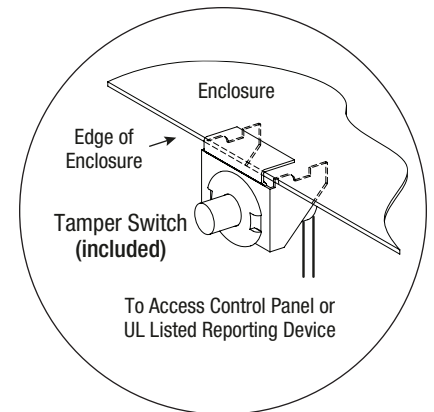• CE European Conformity.

Installation Instructions for Trove2:

1. Remove backplane from enclosure prior to mounting (do not discard hardware).
2. Mark and predrill holes in the wall to line up with the top keyholes in the enclosure. Install the upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the screws, level and secure. Mark the position of the lower holes. Remove the enclosure. Drill the lower holes and install the fasteners. Place the enclosure's upper keyholes over the upper screws. Install the lower screws and make sure to tighten all screws *(Enclosure Dimensions, pg. 8)*.
3. Mount UL Listed tamper switch (Altronix Model TS112 included 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)*. 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/ZKTeco boards/modules to backplane, refer to *page 3.*

Fig. 1

Hardware:

| ⬡⟹ Nylon or Metal Spacer | ⟮▭ 5/16" Pan Head Screw |

Enclosure
Edge of Enclosure
Tamper Switch **(included)**
To Access Control Panel or UL Listed Reporting Device

Installation Instructions for Altronix Power Supplies and/or Sub-Assemblies and ZKTeco Modules to TDR2:

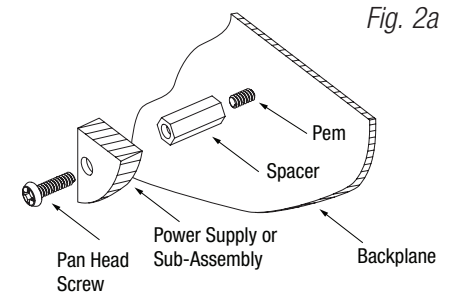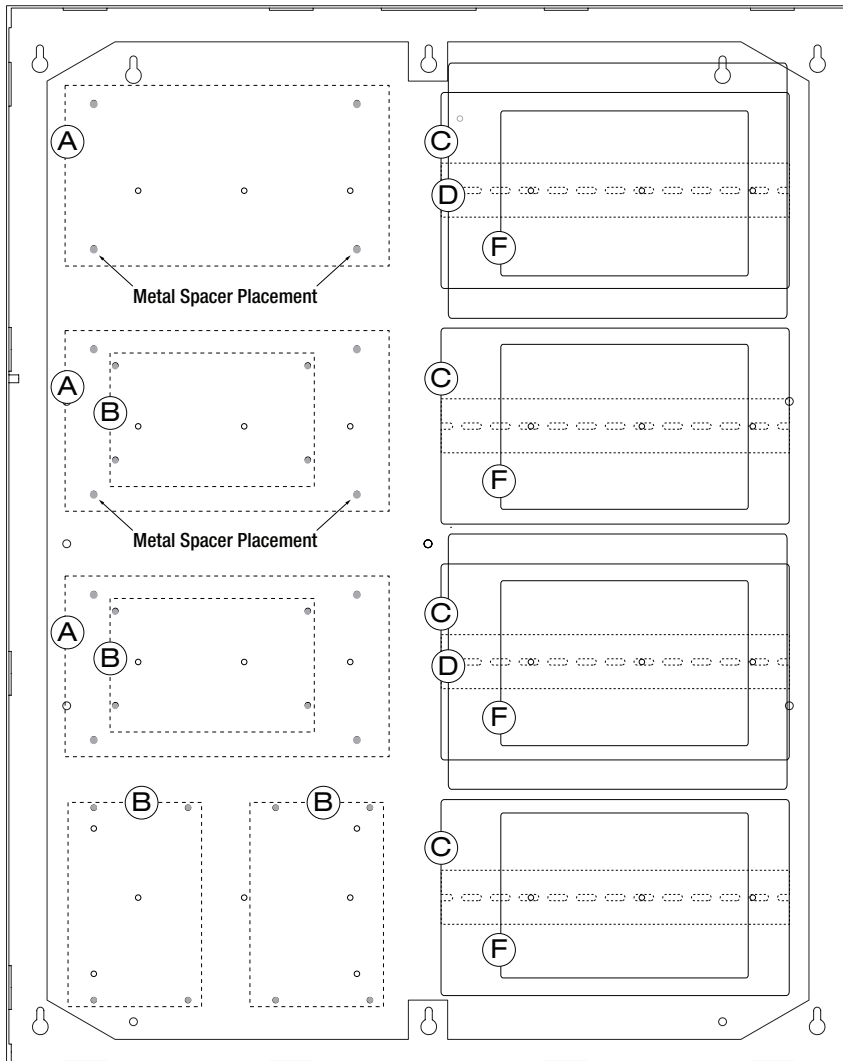**Altronix Power Supplies and/or Sub-Assemblies:**

1. Fasten spacers (included) to pems that match the hole pattern for Altronix Power Supply/Chargers or Altronix Sub-Assembly boards *(Fig. 2, pg. 3)*. Fasten metal spacers in the correct locations to provide proper grounding, see below *(Fig. 2, pg. 3)*.
2. Mount boards to spacers utilizing 5/16" pan head screws (included) *(Fig. 2, 2a, pg. 3)*.

ZKTeco Modules:

1. Fasten DIN Rail (provided by ZKTeco) to pem spacers, utilizing 5/16" pan head screws (included) *(Fig. 2, pg. 3)*.
2. Mount ZKTeco modules to DIN Rail *(refer to below chart for model number, Fig. 2, pg. 3)*.
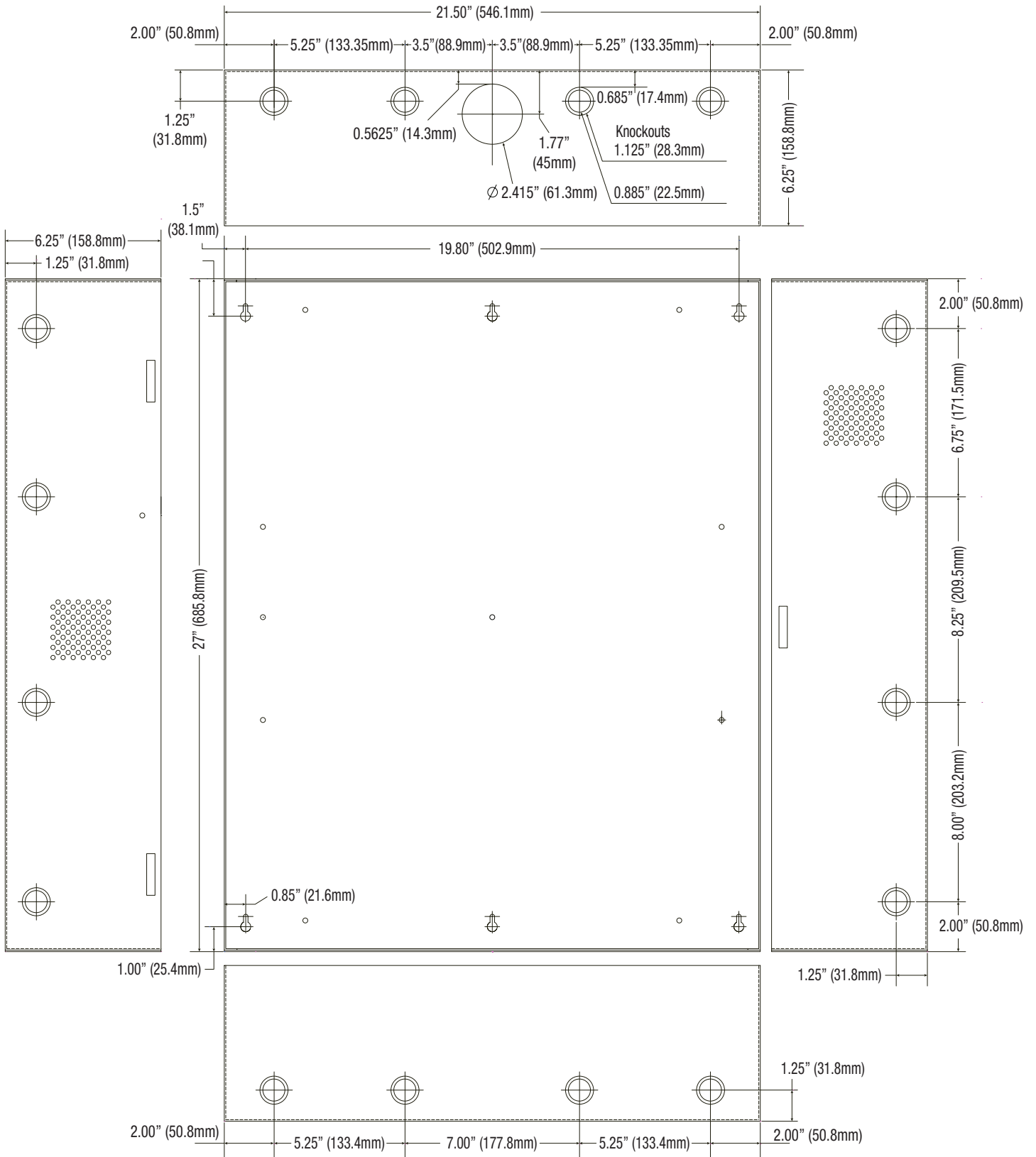3. Fasten TDR2 backplane to Trove2 enclosure utilizing lock nuts (provided by Altronix).

Altronix / ZK Teco	Pem Mounting
AL400ULXB2, AL400ULXB2V, AL600ULXB, AL600XB220, AL1012ULXB, AL1012XB220, AL1024ULXB2, AL1024XB2V, eFlow4NB, eFlow4NBV, eFlow6NB, eFlow6NBV, eFlow102NB, eFlow102NBV, eFlow104NB, eFlow104NBV, Tango1B	Ⓐ
ACM8, ACM8CB, ACMS8, ACMS8CB, ACMS12, ACMS12CB, LINQ8ACM, LINQ8ACMCB	Ⓑ
ACM4, ACM4CB, LINQ8PD, LINQ8PDCB, MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PDS8, PDS8CB, PDS16, PDS16CB, VR6, VR10	Ⓒ
ZKTeco InBio-Pro Series	Ⓓ
ZKTeco Atlas Series	Ⓔ
ZKTeco C3 Pro Series	Ⓕ

Fig. 2 - **Trove2Z2/TDR2 Configurations**

Fig. 2a

Trove2Z2 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)

0.685" (17.4mm)

0.5625" (14.3mm)

1.77" (45mm)

Knockouts
1.125" (28.3mm)

⌀ 2.415" (61.3mm)
0.885" (22.5mm)

6.25" (158.8mm)

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)

0.85" (21.6mm)

2.00" (50.8mm)

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)

L14W

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