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Altronix T1VK34V Trove Access and Power Integration Installation Guide

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Contents

Models Include

T1VK34V
4 Door Kit with Fused Outputs
Fully assembled kit includes:

- Trove1 enclosure with TV1 Altronix/HID VertX® backplane
- One (1) AL600XB220 – Power Supply/Charger
- One (1) VR6 – Voltage Regulator
- One (1) PDS8 – Dual Input Fused Power Distribution Module

T2VK78V
8 Door Kit with Fused Outputs
Fully assembled kit includes:

- Trove2 enclosure with TV2 Altronix/HID VertX® backplane
- One (1) AL1024XB2V – Power Supply/Charger
- One (1) ACM8 – Fused Access Power Controller
- One (1) VR6 – Voltage Regulator
- One (1) PDS8 – Dual Input Fused Power Distribution Module

T3VK7520V
20 Door Kit with Fused Outputs
Fully assembled kit includes:

- Trove3 enclosure with TV3 Altronix/HID VertX® backplane
- One (1) AL1024XB2V – Power Supply/Charger
- One (1) AL1012XB220 – Power Supply/Charger
- Two (2) ACM8 – Fused Access Power Controllers
- One (1) ACM4 – Fused Access Power Controller
- One (1) PD8UL – Fused Power Distribution Module
- One (1) RSB2 – Rocker Switch Bracket with Two (2) Switches

T1VK34DV
4 Door Kit with PTC Outputs
Fully assembled kit includes:

- Trove1 enclosure with TV1 Altronix/HID VertX® backplane
- One (1) AL600XB220 – Power Supply/Charger
- One (1) VR6 – Voltage Regulator
- One (1) PDS8CB – Dual Input PTC Power Distribution Module

T2VK78DV
8 Door Kit with PTC Outputs
Fully assembled kit includes:

- Trove2 enclosure with TV2 Altronix/HID VertX® backplane
- One (1) AL1024XB2V – Power Supply/Charger
- One (1) ACM8CB – PTC Access Power Controller
- One (1) VR6 – Voltage Regulator
- One (1) PDS8CB – Dual Input PTC Power Distribution Module

T3VK7520DV
20 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove3 enclosure with TV3 Altronix/HID VertX® backplane
- One (1) AL1024XB2V – Power Supply/Charger
- One (1) AL1012XB220 – Power Supply/Charger
- Two (2) ACM8CB – PTC Access Power Controllers
- One (1) ACM4CB – PTC Access Power Controller
- One (1) PD8ULCB – PTC Power Distribution Module
- One (1) RSB2 – Rocker Switch Bracket with Two (2) Switches

Overview

Altronix Trove HID VertX® kits are pre-assembled and consist of Trove enclosures/backplanes with factory installed Altronix power supply/chargers and subassemblies. All kits accommodate a variety of HID VertX® modules for up to four (T1VK34), eight (T2VK78) or twenty (T3VK7520) doors in a single enclosure.

Configuration Chart

Altronix Model Number	220VAC 50/60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main Output on Power Supply board and ACM4(CB/ACM8(CB) AccessPower Controllers' outputs	Nominal DC Output Voltage Range (VDC)	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Additional Fused (PTC) Outputs	ACM4(CB)/ACM8(CB)Board Input Fuse Rating	ACM8 Board Output Fuse Rating	ACM8CB Board Output PTC Rating	ACM4 Board Output Fuse Rating	ACM4CB Board Output PTC Rating	PDS Board Input Fuse Rating
T1VK34V	1.5		–	24VDC @ 5.7A	20.17-26.4	–	8	–	–	–	–	–	10A/32V
T1VK34DV													–
T2VK78V	2.5		15A/32V	24VDC @ 9.7A	20.17-26.4	8	8	10A/250V	3.5A/250V	–	–	–	10A/32V
T2VK78DV		5A/250V							–	2.5A	–	–	–
T3VK7520V				24VDC @ 9.1A	20.17-26.4				3.5A/250V	–	3A/32V	–	
	4.1		15A/32V	12VDC @ 10A	9.7-13.2	20	8	10A/250V					–
T3VK7520DV				24VDC @ 9.1A	20.17-26.4				–	2.5A		2.5A	

Installation Instructions for Trove1, Trove2, Trove3

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction.
Product is intended for indoor use only.

1. Remove backplane from enclosure. Do not discard hardware.
2. Mark and predrill holes in the wall to line up with the top two/three keyholes in the enclosure. Install two/three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two/three upper screws, level and secure. Mark the position of the lower two/three holes. Remove the enclosure. Drill the lower holes and install the two/three fasteners. Place the enclosure's upper keyholes over the upper screws. Install the two/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).** 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.

Installation Instructions

4. Mount HID VertX® modules to back plane(s), refer to **pages 3, 4, 5.**
5. Refer to the XBV Power Supply/Charger Installation Guide for AL600XB220, AL1012XB220, AL1024XB2V and corresponding Sub-Assembly Installation Guides for ACM4(CB), ACM8(CB), PDS8(CB), VR6 and PD8UL(CB) for further installation instructions.
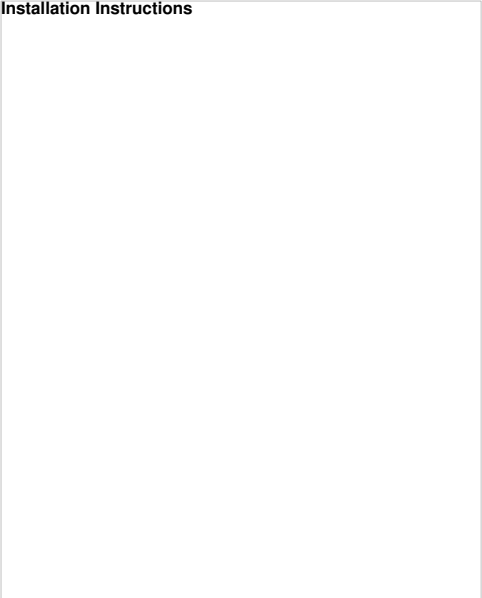
Hardware

- Nylon Spacer

Hardware

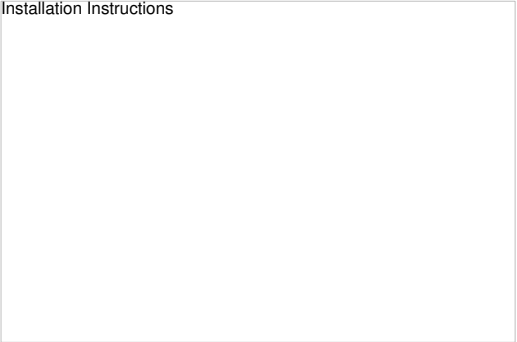- 7/8" Pan Head Screw

Hardware

- Lock Nut

T1VK34(D)V: Installation Instructions for HID VertX® Access Controllers

1. Fasten spacers (provided) onto metal pems configuration (A) of backplane **(Fig. 2, pg. 3).**

   Installation Instructions

2. Mount HID VertX® modules to spacers utilizing 7/8" pan head screws (provided) **(Fig. 2a, pg. 3).**
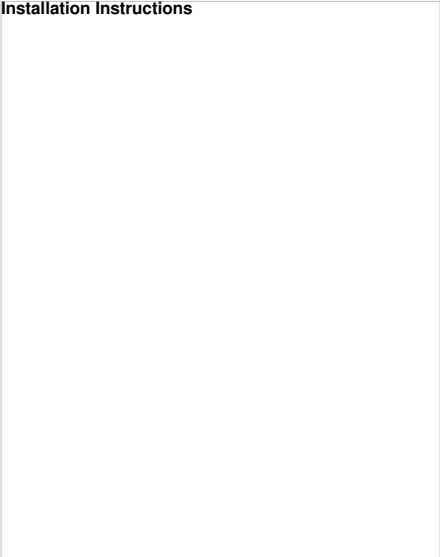
   Installation Instructions

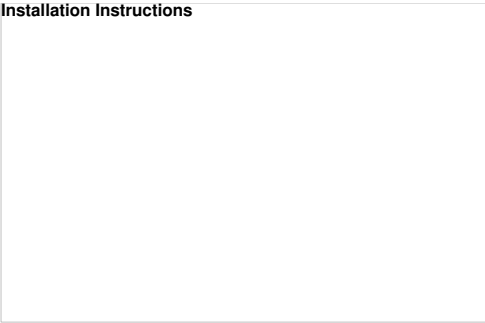3. Fasten backplane to Trove1 enclosure utilizing hardware (provided).

HID VertX® Access Controller Position Chart for the Following Models:

Sub-Assembly	Pem Mounting
V100, V200, V300, V1000, V2000	A Icon

1. Fasten spacers (provided) onto metal pems configuration (A) of back plane **(Fig. 3, pg. 4).**

   Installation Instructions

2. Mount HID VertX® modules to spacers utilizing 7/8" pan head screws (provided) **(Fig. 3a, pg. 4).**

Installation Instructions

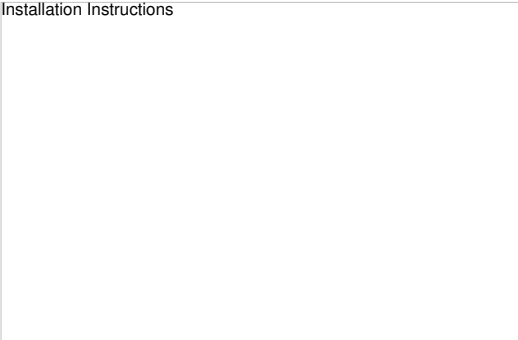3. Fasten backplane to Trove2 enclosure utilizing hardware (provided).

HID VertX® Access Controller Position Chart for the Following Models:

Sub-Assembly	Pem Mounting
V100, V200, V300, V1000, V2000	A Icon

1. Fasten spacers (provided) onto metal pems configuration (A) of backplane **(Fig. 4, pg. 5).**

Installation Instructions

2. Mount HID VertX® modules to spacers utilizing 7/8" pan head screws (provided) **(Fig. 4a, pg. 5).**

Installation Instructions

3. Fasten backplane to Trove3 enclosure utilizing hardware (provided).
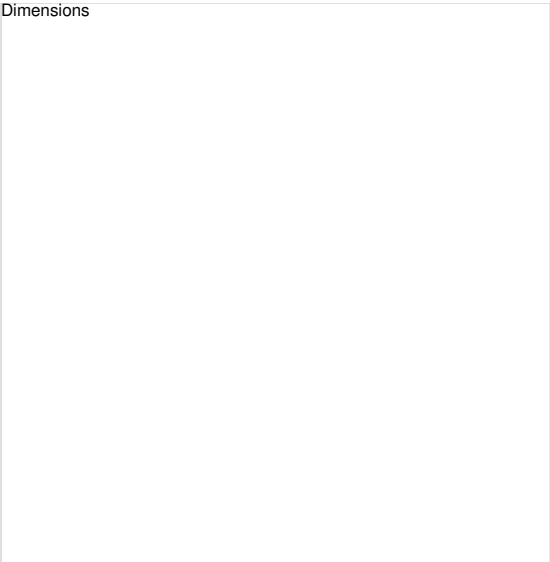
HID VertX® Access Controller Position Chart for the Following Models:

Sub-Assembly	Pem Mounting
V100, V200, V300, V1000, V2000	A Icon

T1VK34V and T1VK34DV (Trove1) Enclosure Dimensions (H x W x D approximate):
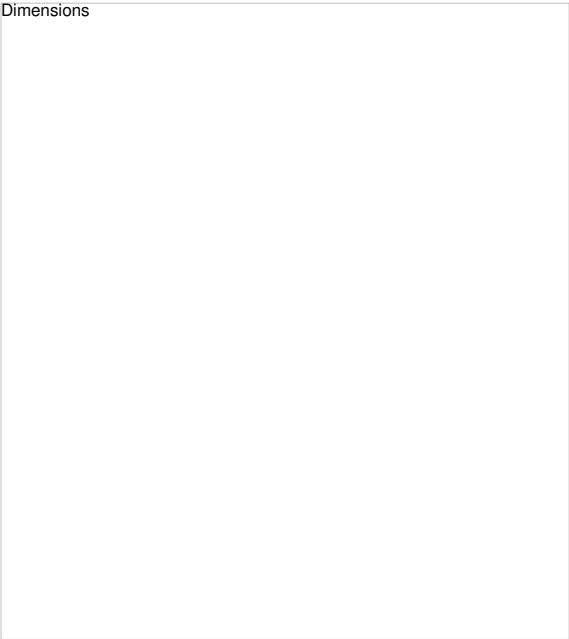
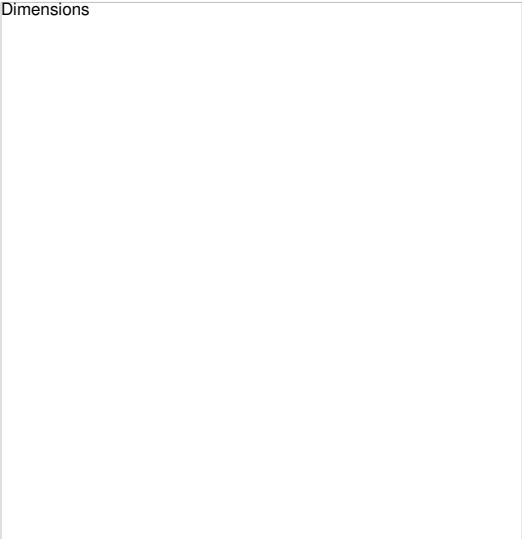18" x 14.5" x 4.625" (457mm x 368mm x 118mm)

Dimensions

27.25" x 21.75" x 6.5" (692.15mm x 546.1mm x 165.1mm)

Dimensions

36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

Dimensions

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Lifetime Warranty IITrove HID VertX XBV Kits

– 8 – Trove HID VertX XBV Kits Installation Guide

Documents / Resources

Altronix T1VK34V Trove Access and Power Integration [pdf] Installation Guide
T1VK34V, T1VK34DV, T2VK78V, T2VK78DV, T3VK7520V, T3VK7520DV, T1VK34V Trove Access and Power Integration, Trove Access and Power Integration, Access and Power Integration, Power Integration, Integration

References

- **altronix.com**