

#### Description

Altronix T3VK75F20 kit consists of Trove3 enclosure, TV3 VertX<sup>®</sup>/Altronix backplane with one (1) 24VDC @ 10A and one (1) 12VDC @ 10A power supply/chargers, two (2) 8-output fused access power controllers, one (1) 4-output fused access power controller and one (1) 8-output fused power distribution module. Also featured is a rocker switch bracket with two (2) rocker switches.

This kit also accommodate up to ten (10) HID VertX<sup>®</sup> modules for up to twenty (20) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T3VK75F20

VertX/Aero modules sold separately

#### Key Features

- One (1) 24VDC and one (1) 12VDC power supply/chargers.
- Accommodates up to ten (10) VertX<sup>®</sup> V100, V200, V300, V1000, V2000 or Aero X100, X200, X300, X1100 modules.
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit).
  - One (1) double knockout 1.948" (1.5" Conduit) / 1.701" (1.25" Conduit).
  - Sixteen (16) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit).
- 16 AWG galvanized steel backplane simplifies board layout and wire management.
- Supervision
  - AC Fail
  - Supervision (*cont'd*)
    - Low Battery and Battery Presence
    - Low power shutdown.
- Agency Listings:
  - All Altronix components of this Trove kit are UL Listed sub-assemblies. Please refer to the Sub-Assembly Installation Guides for further information.
    - UL: UL294 - Access Control System.
    - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems.
    - CE European Conformity.
  - Enclosure accommodates up to four (4) 12VDC/12AH batteries.
  - Lifetime Warranty\*.

\*Altronix Power Supply/Chargers and Sub-Assemblies only

#### Accessories (order separately)



LINQ2

#### LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email



WM5

#### WM5, WM25, WM100 - Magnetic Cable Tie Mounts

Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps. These are ideal for wire management in our Trove series.



Mounting Magnet

#### MM4, MM8, MM12, MM24 - Magnetic Mounting Solution

Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.

**Specifications**

**Power Supply 1 (eFlow104NB):**

**Input**

Voltage	120VAC, 60Hz, 4.5A max.
Main Fuse	6.5A/250V.

**Output**

Voltage	24VDC.
Current	10A continuous.

**Power Supply 2 (eFlow102NB):**

**Input**

Voltage	120VAC, 60Hz, 3.5A max.
Main Fuse	5A/250V.

**Output**

Voltage	12VDC.
Current	10A continuous.

**Both Power Supplies:**

**Outputs**

Auxiliary	Class 2 power-limited @ 1A (unswitched).
Other	Overvoltage protection. Filtered and regulated.

**Battery Backup (not included)**

Type	Sealed lead acid or gel type.
Fuse Rating	10A/32V.
Failover	Upon AC loss, instantaneous.

**Fire Alarm Disconnect**

Supervised	Latching or non-latching.
EOL	10K Resistor.

**Supervision**

AC Failure	Form "C" contacts.
Battery	Form "C" contacts.

**Low DC Power Shutdown**

Shuts down DC output terminals if battery voltage drops below 70-75% for 24V units or 71-73% for 12V units. Prevents deep battery discharge.

**Indicators (LED)**

AC Input	120VAC is present.
DC Output	Powered.

**Two (2) Access Power Controllers (ACM8):**

**Input**

Voltage	24VDC from eFlow104NB.
Input Fuse	10A/250V.

**Outputs**

Voltage	24VDC.
Eight (8) independently controlled fused outputs:	
a) Fail-Safe and/or Fail-Secure power outputs.	
Form "C" Relays rated 28VAC or VDC @ 2.5A.	
b) Auxiliary power outputs (unswitched).	
c) Any combination of the above.	

Output Fuses	3.5A/250V.
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**Indicators (LED)**

Red LEDs	Outputs are triggered (relays energized).
Green LED	FACP disconnect is triggered.

**One (1) Access Power Controller (ACM4):**

**Input**

Voltage	24VDC from eFlow104NB.
Main Fuse	10A/32V.

**Outputs**

Voltage	24VDC.
Four (4) independently controlled 2.5A outputs:	
a) Four (4) Fail-Safe and/or Fail-Secure power outputs.	
b) Four (4) dry form "C" 5A rated relay outputs.	
c) Any combination of the above.	
Four (4) auxiliary power outputs (unswitched).	

Output Fuses	3A/32V.
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**Indicators (LED)**

Red LEDs	Outputs are triggered (relays energized).
Green LED	FACP disconnect is triggered.

**One (1) Power Distribution Module (PD8UL):**

**Input**

Voltage	12VDC from eFlow102NB.
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**Outputs**

Voltage	12VDC.
Eight (8) fuse protected outputs.	
3.5A per output max.	

Output Fuses	3.5A/250V.
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**Indicators (LED)**

Green LED	DC Output.
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**T3VK75F20 Kit:**

**Agency Listings**

All components of this Trove kit are UL Listed sub-assemblies. Please refer to the corresponding Sub-Assembly Installation Guides for further information.

CE	European Conformity.
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**Physical and Environmental**

Dimensions (H x W x D)	36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm).
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**Weight (approx.)**

Product	85 lb. (38.6 kg).
Shipping	92 lb. (41.73 kg).

**Temperature**

Operating	0°C to 50°C (32°F to 122°F).
Storage	-20°C to 70°C (-4°F to 158°F).

Relative Humidity	85% +/-5%.
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BTU/Hr (approx.):	177 BTU/Hr.
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**Access Controller Position Chart for the Following Models:**

HID VertX	Pem Mounting
V100, V200, V300, V1000, V2000, X100, X200, X300, X1100	Ⓐ



