

T1AXK3F2SD (Kit)

Access & Power Integration Solution for Axis Communications

Altronix T1AXK3F2SD kit consists of Trove1 enclosure, TDR1 DIN Rail/Altronix backplane with one (1) 12 or 24VDC @ 6A power supply/charger, one (1) PTC access power controller, one (1) voltage regulator and one (1) dual input PTC power distribution module. This kit also accommodates one (1) A1610 or two (2) A1210 for up to two (2) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

**TROVE™**

T1AXK3F2SD with two (2) A1210
DIN Rail is included



T1AXK3F2SD with one (1) A1610
DIN Rail is included

Axis Communications boards are not included

Key Features

- 12 or 24VDC power supply/charger
- Accommodates one (1) A1610 or two (2) A1210 modules
- Convenient knockout configuration:
 - One (1) double knockout
1.948" (1-1/2" Conduit) / 1.701" (1-1/4" Conduit)
 - Nine (9) double knockouts
1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
 - AC Fail
 - 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
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to two (2) 12VDC/7AH batteries.
- Lifetime Warranty*

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

Specifications

Power Supply/Charger (eFlow6NB):

Input

| | |
|------------|-------------------------|
| Voltage | 120VAC, 60Hz, 3.5A max. |
| Input Fuse | 5A/250V |

Outputs

| | |
|-----------|--|
| Voltage | 12VDC or 24VDC selectable |
| Current | 6A continuous max. |
| Auxiliary | Power-limited @ 1A (unswitched) |
| Other | Overvoltage protection. Filtered and regulated |

Battery Charging

| | |
|-------------------------------|---|
| Capacity | 7AH/12VDC (2 within enclosure) 40AH/65AH (requires separate enclosure) |
| Type | Sealed lead acid or gel type |
| Failover | Upon AC loss, instantaneous |
| Batteries are sold separately | |

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 71-73% for 12V units and 70-75% for 24V units (depending on the power supply). Prevents deep battery discharge

Indicators (LED)

| | |
|-----------|-------------------|
| Input | 120VAC is present |
| DC Output | Powered |

Access Power Controller (ACM4CB):

Input

| | |
|-----------|---------------------|
| Voltage | 24VDC from eFlow6NB |
| Input PTC | 9A |

Outputs

| | |
|--|-------|
| Voltage | 24VDC |
| Four (4) independently controlled PTC 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 PTCs | 2.5A |
|-------------|------|

Indicators (LED)

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

Voltage Regulator (VR6):

Input

| | |
|---------|---------------------|
| Voltage | 24VDC from eFlow6NB |
|---------|---------------------|

Output

| | |
|---------|-------------------|
| Voltage | 12VDC |
| Current | 6A continuous |
| Other | Surge suppression |

Indicators (LED)

| | |
|--------|------------------|
| Input | 24VDC is present |
| Output | Powered |

Dual Input Power Distribution Module (PDS8CB):

Input

| | |
|---------|---|
| Voltage | 24VDC from eFlow6NB and 12VDC from VR6 |
|---------|---|

| | |
|------------|----|
| Input PTCs | 9A |
|------------|----|

Outputs

| | |
|--|--------------------|
| Voltage | 12VDC and/or 24VDC |
| Any of the eight (8) power outputs are selectable to follow power Input 1 or Input 2 | |
| Individual outputs may be set to OFF position for servicing | |

| | |
|-------------|------|
| Output PTCs | 2.5A |
|-------------|------|

Indicators (LED)

| | |
|-----------|----------------------------------|
| DC Output | Eight (8) individual output LEDs |
| Green: | 12VDC |
| Red: | 24VDC |

T1AXK3F2SD 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 |
|----|---------------------|

Physical and Environmental:

Dimensions (H x W x D)

| | |
|------------|---|
| Enclosure: | 18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm) |
| Shipping: | 21.75" x 18.25" x 5.75" (552.5mm x 463.6mm x 146.1mm) |

Weight (approx.)

| | |
|-----------|-------------------|
| Product: | 15.5 lb. (7.0 kg) |
| Shipping: | 19.5 lb. (8.9 kg) |

Temperature

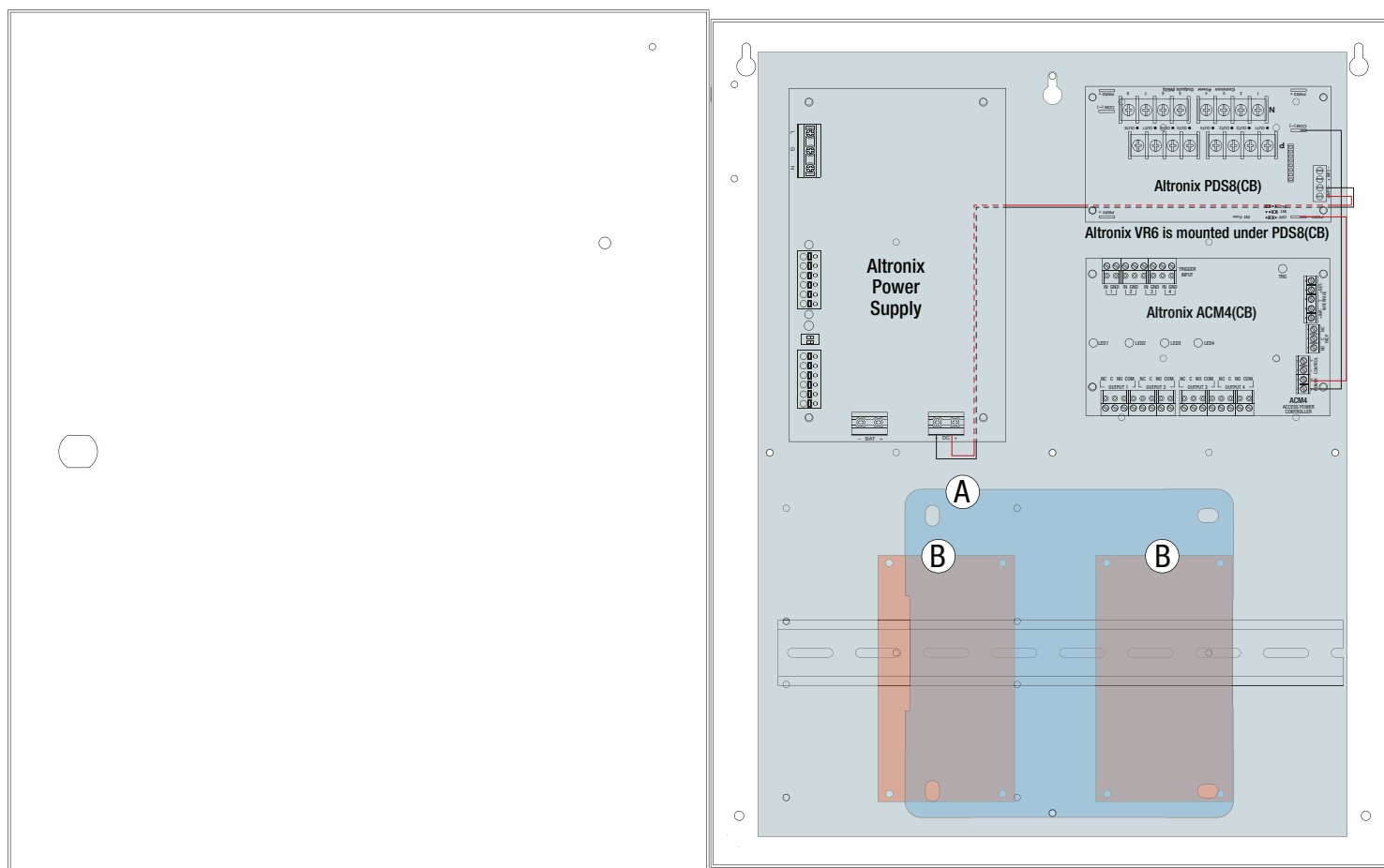
| | |
|-----------|-------------------------------|
| Operating | 0°C to 49°C (32°F to 120°F) |
| Storage | -20°C to 70°C (-4°F to 158°F) |

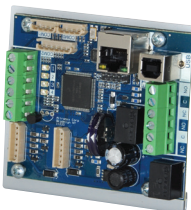
| | |
|-------------------|------------|
| Relative Humidity | 85% +/- 5% |
|-------------------|------------|

| | |
|--------------------|------------|
| BTU/Hr. (approx.): | 87 BTU/Hr. |
|--------------------|------------|

Access Controller Position Chart for the Following Models:

| Altronix/Axis Communications | Pem Mounting |
|--|--------------|
| Axis 1601, Axis 1610 (mounted onto DIN Rail) | (A) |
| Axis 1210 (mounted onto DIN Rail) | (B) |



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.

Dimensions and Drawing

Dimensions (H x W x D approximate)

18.0" x 14.5" x 4.625" (457.2mm x 368.3mm x 118mm)

