

T2PHK77F24D (Kit)

Access & Power Integration Solution for Openpath

Altronix T2PHK77F24D kit consists of Trove2 enclosure, TCV2 Openpath/Altronix backplane with two (2) 24VDC @ 10A power supply/chargers, and three (3) eight (8) PTC protected output access control modules. This kit also accommodates up to one (1) Openpath Core, two (2) Elevator Board, three (3) 4-Port or 8-Port modules for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T2PHK77F24D

*Openpath boards are not included***Key Features**

- 24VDC power supply/chargers
- Accommodates Openpath modules: one (1) OP-ACC, up to two (2) OP16EM, or three (3) OP-EX-4E or OP-X-8E modules
- Convenient knockout configuration:
 - One (1) single knockout 2.415" (2" Conduit)
 - Sixteen (16) 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 four (4) 12VDC/12AH batteries
- Lifetime Warranty*

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

Specifications**Two (2) Power Supplies (eFlow104NB):****Input**

| | |
|------------|----------------------|
| Voltage | 120VAC, 60Hz, 9A max |
| Input Fuse | 6.3A/250V |

Output

| | |
|------------|--|
| Voltage | 24VDC @ 10A |
| Auxiliary | 1A (unswitched) |
| Protection | Overvoltage protection. Filtered and regulated |

Battery Charging

| | |
|----------|--|
| Capacity | 12VDC/12AH (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 70-75% for 24V units (depending on the power supply).
Prevents deep battery discharge

Indicators (LED)

| | |
|-----------|-----------------------------|
| AC Input | 120VAC is present |
| DC Output | Powered |
| Battery | Discharged or not connected |

Three (3) Access Power Controllers (ACM8CB):**Input**

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

Outputs

| | |
|---|-------|
| Voltage | 24VDC |
| Eight (8) 24VDC 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 |

T2PHK77F24D 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:
27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)

Shipping:
32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm)

Weight (approx.)

| | |
|----------|--------------------|
| Product | 54.7 lb. (24.8 kg) |
| Shipping | 59.7 lb. (27.1 kg) |

Temperature

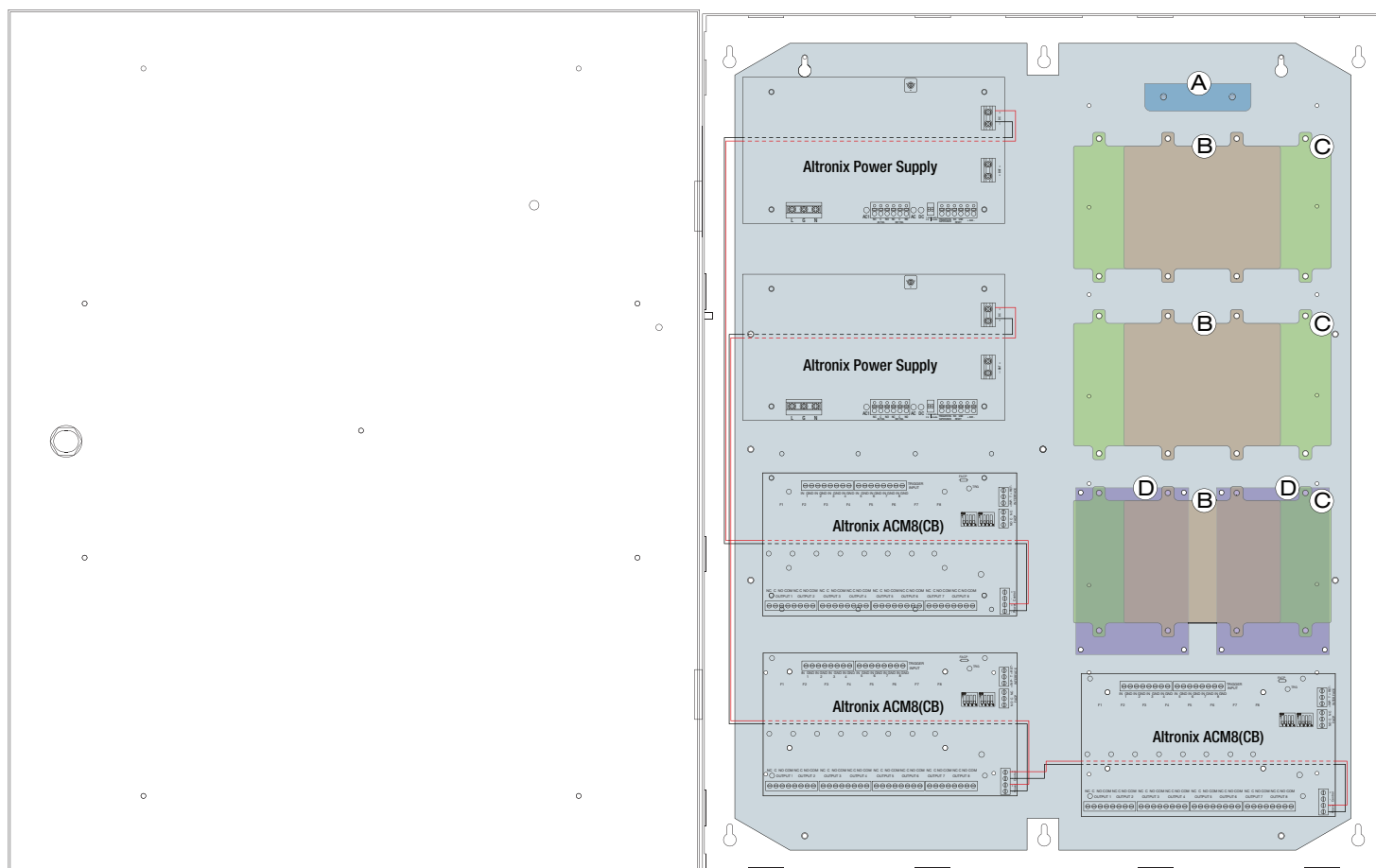
| | |
|-----------|-------------------------------|
| Operating | 0°C to 49°C (32°F to 120°F) |
| Storage | -20°C to 70°C (-4°F to 158°F) |

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

| | |
|-------------------|-------------|
| BTU/Hr (approx.): | 290 BTU/Hr. |
|-------------------|-------------|

Access Controller Position Chart for the Following Models:

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



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.



BR1

BR1 - Sub-Assembly Mounting Bracket

Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.

Trove2BWC
with
batteriesTrove2BWC
with
wires**TROVE2BWC - Battery/Wire Trough Enclosure**

Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution. The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets. Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.

Dimensions and Drawing

Dimensions (H x W x D approximate)

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)

