

## Access & Power Integration Solution for PDK Red™

Altronix T2PDK75F16SD kit consists of Trove2 enclosure, TPD2 PDK Red<sup>TM</sup>/Altronix backplane with one (1) 24VDC @ 10A, one (1) 12VDC @ 10A power supply/charger, two (2) eight (8) PTC protected dual input/output access control modules, one (1) 12VDC voltage regulator and one (1) eight (8) PTC protected power distribution modules. This kit also accommodates up to four (4) PDK Red<sup>TM</sup> modules for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.







PDK boards are not included

## Key Features —

- 12VDC & 24VDC power supply/chargers
- Accommodates Pdk Red<sup>TM</sup> modules: up to eight (8) red1, red2, or six (6) red4
- 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\*

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



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#### Specifications

Power Supply/Charger 1 (eFlow104NB):

Input

Voltage 120VAC, 60Hz, 4.5A

Input Fuse 6.3A/250V

Output

Voltage 24VDC @ 10A. Auxiliary 1A (unswitched)

Protection Overvoltage protection. Filtered and regulated

Power Supply/Charger 2 (eFlow102NB):

Input

Voltage 120VAC, 60Hz, 3.5A

Input Fuse 5A/250V

Output

Voltage 12VDC @ 10A Auxiliary 1A (unswitched).

Protection Overvoltage protection. Filtered and regulated

**Both Power Supplies:** 

**Battery Charging** 

Capacity 12VDC/12AH (4 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)

AC Input 120VAC is present

DC Output Powered

Battery Discharged or not connected

Voltage Regulator (VR6):

Input

Voltage 24VDC from eFlow104NB

Output

Voltage 12VDC Current 6A continuous Other Surge suppression

Indicators (LED)

Input 24VDC is present

Output Powered

**Power Distribution Module (PD8ULCB):** 

Input

Voltage 12VDC from eFlow104NB

Outputs

Voltage 12VDC Output PTCs 2.5A

Indicators (LED)

Green LED DC Output

Two (2) Dual Input Access Power Controllers (ACMS8CB):

Input

Voltage 24VDC from eFlow104NB and

12VDC from VR6

Input PTCs 9A

Outputs

Voltage 12 or 24VDC individually selectable Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) indepently controlled Form "C" relay outputs:

a) Fail-Safe and/or Fail-Secure power outputs b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated

c) Auxiliary power outputs (unswitched)

d) Any combination of the above

Any of the eight (8) PTC protected 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)

Red LEDs Outputs are triggered (relays energized)

Blue LED FACP disconnect is triggered

Individual voltage LEDs:
Green: 12VDC
Red: 24VDC

T2PDK75F16SD 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" (826mm x 673mm x 283mm)

Weight (approx.)

Product 49.8 lb. (22.59 kg) Shipping 53.55 lb. (24.29 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.



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#### **Accessories** (order separately)



#### 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.



## 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 - 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 - 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.



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### **Access Controller Position Chart for the Following Models:**

PDK	Pem Mounting
red1, red2, red4	A





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### **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)

