

T1PDK7F8D (Kit)

Access & Power Integration Solution for PDK



Altronix T1PDK7F8D kit consists of Trove1 enclosure, TPD1 PDK/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) dual input eight (8) PTC protected output access control module and one (1) voltage regulator. This kit also accommodates up to two (2) PDK red modules for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T1PDK7F8D

PDK boards are not included



Key Features

- 24VDC power supply/charger
- Accommodates up to two (2) PDK ed1, red2, red4 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 gauge 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*

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 (eFlow104NB):

Input

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

Outputs

Voltage 24VDC
Current 10A continuous
Auxiliary Class 2 power-limited @ 1A (unswitched)
Other Overvoltage protection. Filtered and regulated

Battery Charging

Capacity 12VDC/7AH (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. Prevents deep battery discharge

Indicators (LED)

Input 120VAC is present
DC Output Powered.

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

Dual Input Access Power Controller (ACMS8CB):

Input

Voltage 24VDC from eFlow104NB and
12VDC from VR6
Input PTCs 9A

Outputs

Voltage 12VDC and/or 24VDC
Eight (8) selectable independently controlled outputs or eight (8) independently 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

T1PDK7F8D 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

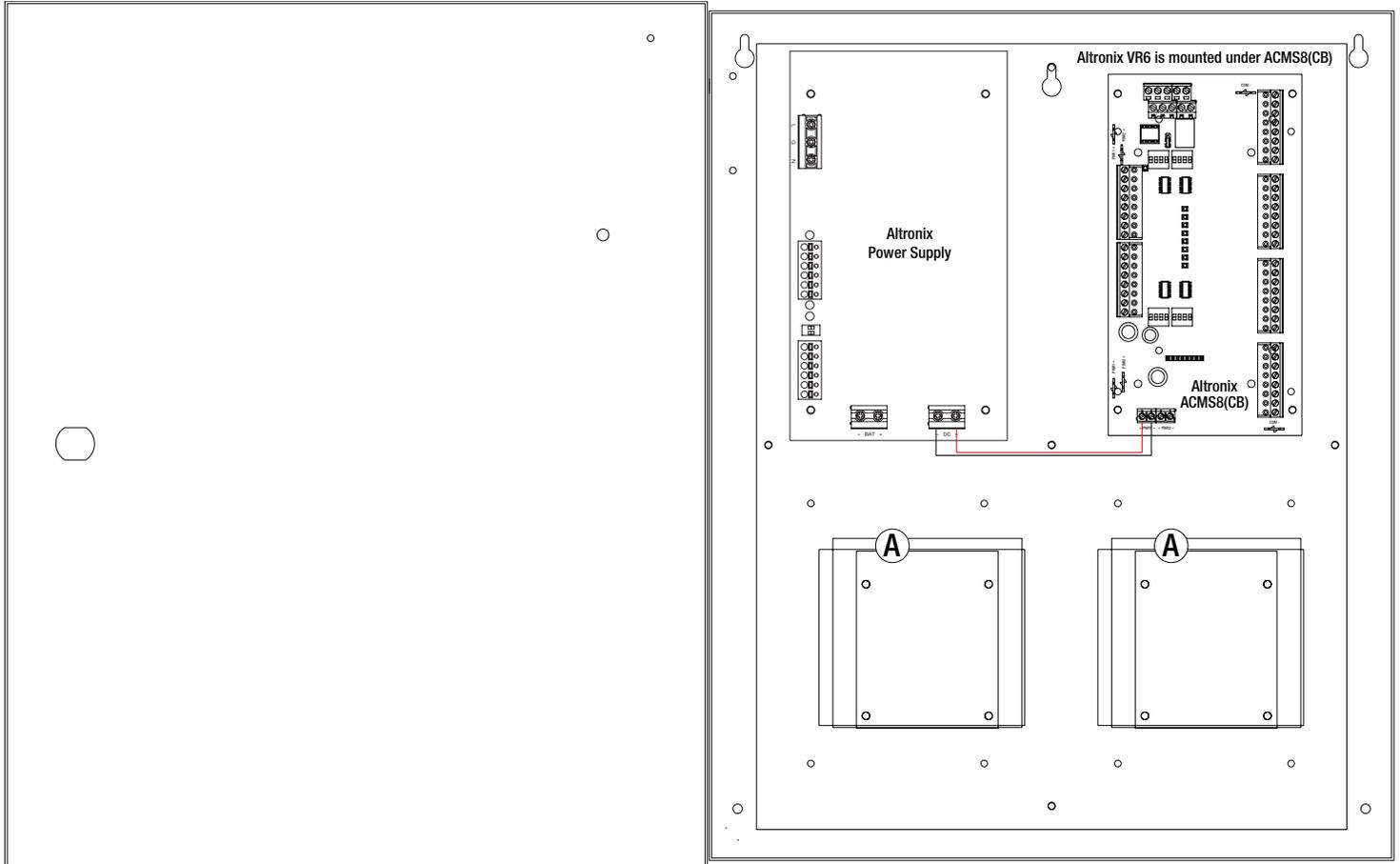
Operating 0°C to 49°C (32°F to 120°F)
Storage - 20°C to 70°C (- 4°F to 158°F)

Relative Humidity 85% +/-5%

BTU/Hr (approx.): 123 BTU/Hr.

Access Controller Position Chart for the Following Models:

PDK	Pem Mounting
red1, red2, red4	Ⓐ



Dimensions and Drawing

Dimensions (H x W x D approximate)
 18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm)

