

T1PHK1F4S (Kit)

Access & Power Integration Solution for Openpath

Altronix T1PHK1F4S kit consists of Trove1 enclosure, TC1 Openpath/Altronix backplane with one (1) 12VDC or 24VDC @ 4A power supply/charger, one (1) fused access power controller, one dual input fused power distribution module and one (1) voltage regulator. This kit also accommodates up to one (1) Openpath Core, Elevator Board, 4-Port or 8-Port modules for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T1PHK1F4S

Openpath boards are not included

Key Features

- 12VDC or 24VDC power supply/charger
- Accommodates up to one (1) Openpath OP-ACC, OP16EM, and one (1) OP-EX-4E or OP-X-8E 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 (eFlow4NB):

Input

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

Outputs

Voltage 12VDC or 24VDC selectable
 Current 4A continuous max.
 Auxiliary 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 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

Dual Input Power Distribution Module (PDS8)

Input

Voltage 24VDC from eFlow4NB and 12VDC from VR6
 Input Fuses 10A/32V

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 Fuses 3A/32V

Indicators (LED)

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

Voltage Regulator (VR6):

Input

Voltage 24VDC from eFlow4NB

Output

Voltage 12VDC
 Current 6A continuous
 Other Surge suppression

Indicators (LED)

Input 24VDC is present
 Output Powered

Access Power Controller (ACM4):

Input

Voltage 24VDC from eFlow4NB
 Input Fuse 10A/32V

Outputs

Voltage 24VDC
 Four (4) 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 3A/32V

Indicators (LED)

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

T1PHK1F4S 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

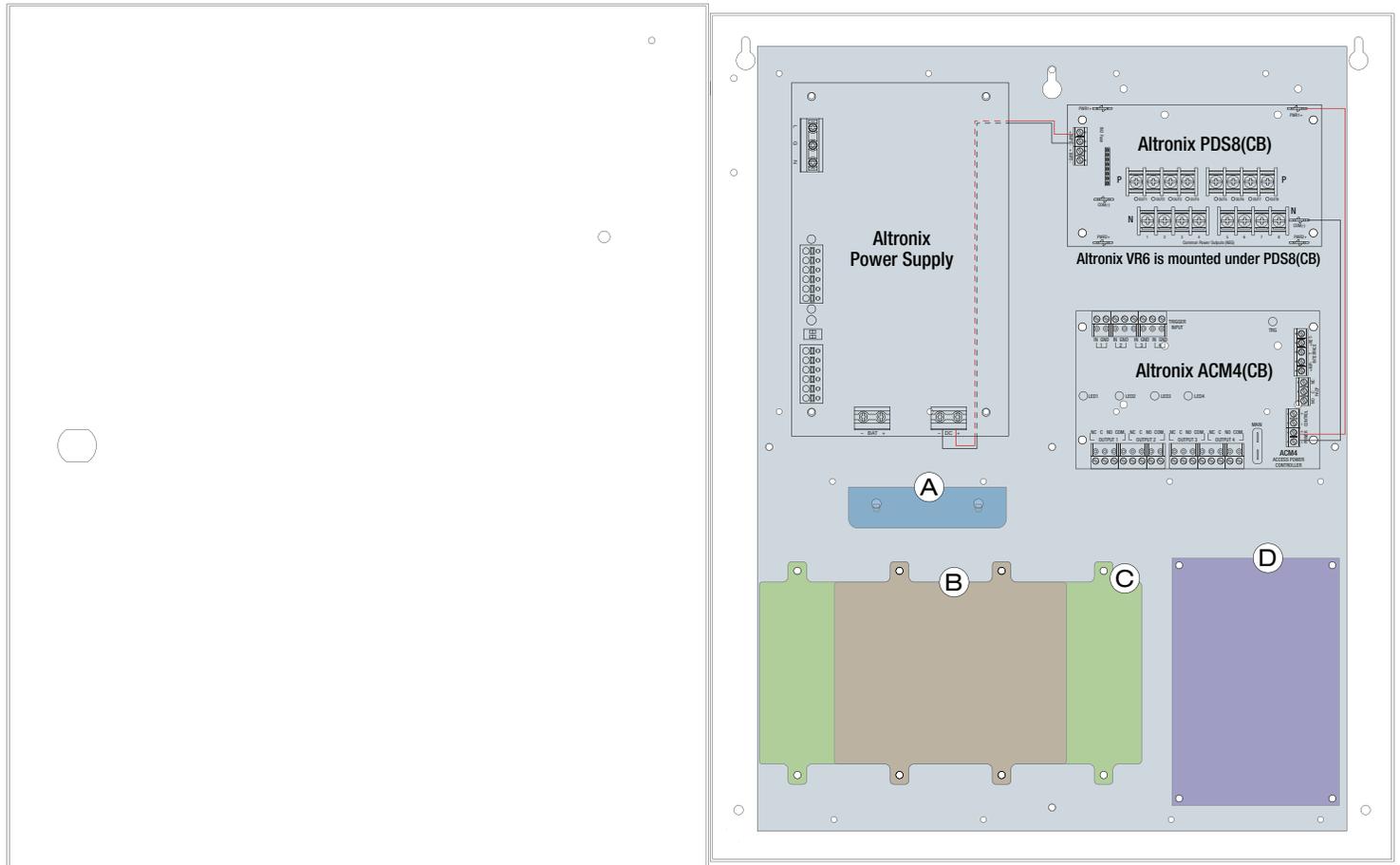
85% +/- 5%

BTU/Hr (approx.):

12VDC: 28 BTU/Hr.
 24VDC: 51 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.

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)

