

T2HCK75F16

Access & Power Integration Solution



Description

Altronix T2HCK75F16 kit consists of Trove2 enclosure and THC2 Hartmann Controls/ Altronix backplane with 12VDC @ 10A and 24VDC @ 10A power supply/chargers and two (2) ACMS8 Access Power Controllers. This kit also accommodates up to two (2) PRS_MASTER and eight (8) PRS_TDM, PRS_IO8 modules for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T2HCK75F16
Hartmann Controls boards sold separately

Key Features

- 12VDC & 24VDC power supply/chargers.
- Accommodates up to two (2) PRS_MASTER and eight (8) PRS_TDM or PRS_IO8 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).
- 16 AWG galvanized steel backplane simplifies board layout and wire management.
- Supervision
 - AC Fail
- Supervision (*cont'd*)
 - 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.
- Enclosure accommodates up to two (2) 12VDC/7AH batteries.
- Lifetime Warranty*

*Altronix Power Supply/Charger 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.

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Specifications

Power Supply 1 (eFlow104NB):

Input

Voltage	120VAC, 60Hz, 4.5A max.
Input Fuse	6.3A/250V.

Output

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

Power Supply 2 (eFlow102NB):

Input

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

Output

Voltage	12VDC @ 10A.
Auxiliary	1A (unswitched).
Protection	Overvoltage protection. Filtered and regulated.

Both Power Supplies:

Battery Backup

Type	Sealed lead acid or gel type.
Fuse Rating	15A/32VDC.
Failover	Upon AC loss, instantaneous.

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.

ACMS8 - Access Power Controller:

Input

Two (2) independent low voltage inputs.	
Voltage Range	5VDC to 24VDC, up to 10A each or 20A total input.
Current	
Consumption:	0.6A @ 12V, 0.3A @ 24V with all relays energized.
Main Fuse Rating	15/32A.

Trigger Inputs:

- Eight (8) individually controlled trigger inputs:
- Normally open (NO) inputs.
 - Normally closed (NC) inputs.
 - Open collector sink inputs.
 - Wet Input (5VDC - 24VDC) with 10K resistor.
 - Any combination of the above.

ACMS8 - Access Power Controller (cont'd):

Outputs

Fuse protected outputs rated @ 2.5A per output, non power-limited. Total output 20A max. Do not exceed the individual power supply ratings.

Eight (8) selectable 5VDC - 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs:

- Fail-Safe and/or Fail-Secure power outputs.
- Form "C" Relays. 28VAC or VDC @ 2.5A Rated.
- Auxiliary power outputs (unswitched).
- Any combination of the above.

Any of the eight (8) fuse protected power outputs are selectable to follow power Input 1 or Input 2.

Individual outputs may be set to OFF position for servicing.

Output Ratings:

Fuses are rated 2.5A each.

Total output current is determined by the power supply(ies), not to exceed a maximum of 10A for each input.

Fire Alarm Disconnect

Supervised

Latching or non-latching, individually selectable for any or all of the eight (8) outputs.

EOL

10K Resistor.

Indicators (LED)

Red LEDs

Outputs are triggered (relays energized).

Blue LED

FACP disconnect is triggered.

Individual voltage LEDs

Green:	12VDC
Red:	24VDC.

T2HCK75F16 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)

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

Weight (approx.)

Product	41.3 lb. (18.2 kg).
Shipping	45.05 lb. (19.9 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.):

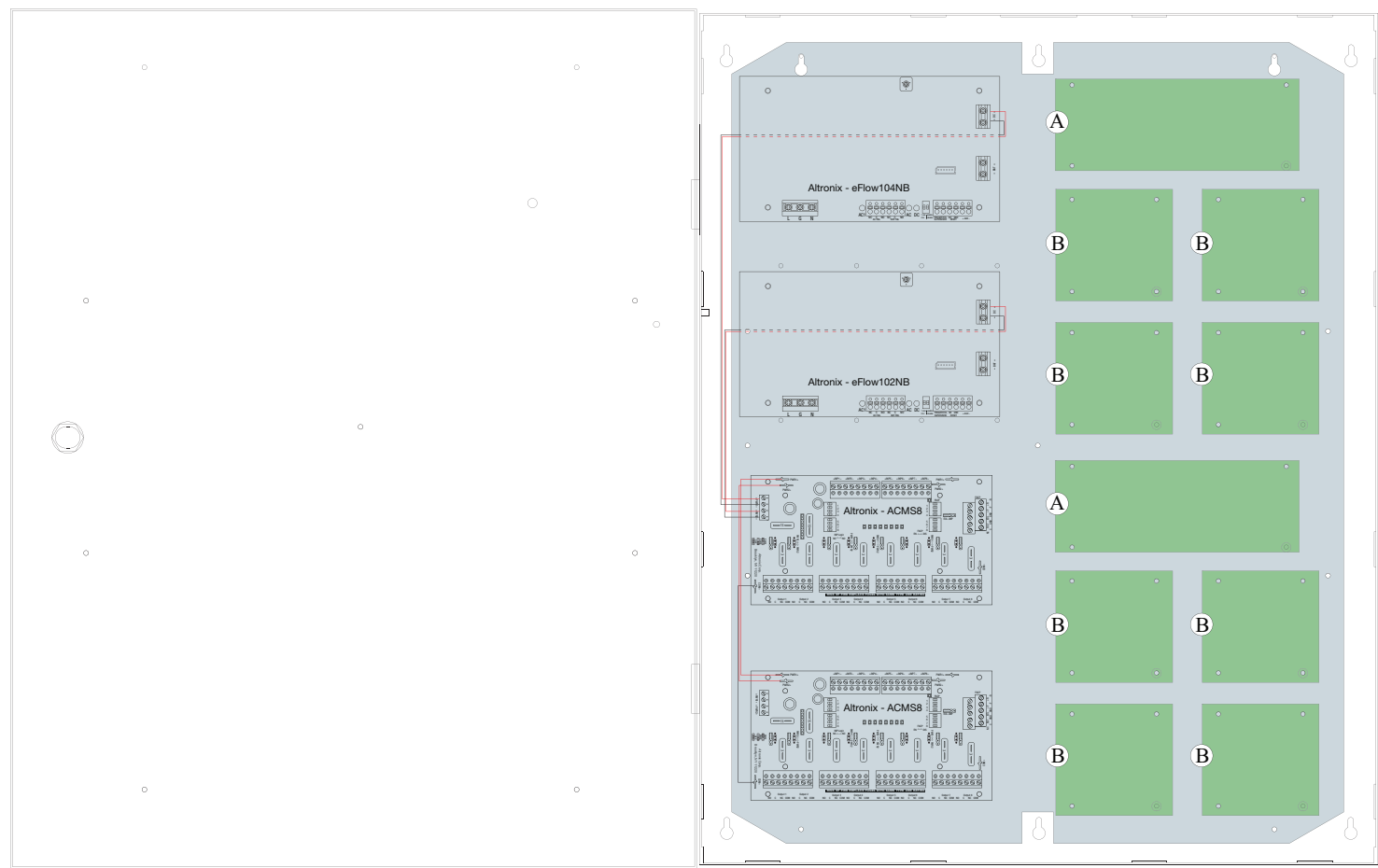
184 BTU/Hr.

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Access Controller Position Chart for the Following Models:

Hartmann Controls	Pem Mounting
PRS_MASTER	(A)
PRS_TDM, PRS_I08	(B)



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