Altronix®

T2HWK78D (Kit)

Access & Power Integration Solution for Honeywell

TROVE™

Altronix T2HWK78D kit consists of Trove2 enclosure, THW2 Honeywell/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) 8-output PTC access power controller, one (1) voltage regulator and one (1) 8-output PTC dual input power distribution module.

This kit also accommodates up to four (4) Honeywell 4200 Series or WIN-PAK Series boards and up to two (2) Honeywell PW7K1ICE or PW7K1R1E boards for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

Honeywell
THE POWER OF **CONNECTED**

T2HWK78D

Honeywell boards are not included

Key Features

- 24VDC power supply/charger
- Accommodates up to four (4) 4200 Series or WIN-PAK Series boards and up to two (2) PW7K1ICE or PW7K1R1E boards
- 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
  - Battery Fail and Battery Presence

- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 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
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

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Specifications

Power Supply (AL1024ULXB2):

Input
Voltage	115VAC 60Hz, 4.2A max.
Input Fuse	5A/250V

Outputs
Voltage	24VDC
Current	10A @ 24VDC continuous max.
Other	Overvoltage protection. Filtered and regulated

Battery Charging
Capacity	12AH/12VDC (2 within enclosure)
	40AH/65AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Failover	Upon AC loss, instantaneous
Batteries are sold separately	

Supervision
AC Failure	Form "C" contacts
Battery	Form "C" contacts

Indicators (LED)
Input	115VAC is present
DC Output	Powered
Battery	Discharged or not connected

Dual Input Power Distribution Module (PDS8CB):

Input
Voltage	24VDC from AL1024ULXB2 and
	12VDC from VR6
Input PTCs	9A

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 PTCs	2.5A

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

Voltage Regulator (VR6):

Input
Voltage	24VDC from AL1024ULXB2

Output
Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)
Input	24VDC is present
Output	Powered

Access Power Controller (ACM8CB):

Input
Voltage	24VDC from AL1024ULXB2
Input Fuse	10A/250V

Outputs
Voltage	24VDC

Eight (8) 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

T2HWK78D 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:	54.3 lb. (24.6 kg)
Shipping:	59.3 lb. (26.9 kg)

Temperature
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr. (approx.):	128 BTU/Hr.

Access Controller Position Chart for the Following Models:

Honeywell Win-Pak/ProWatch	Pem Mounting
PRO42IC, PRO42R2, PRO42IN, PRO42OUT, PW7K1IC, PW7K1R2, PW7K1IN, PW7K1OUT	Ⓐ
PW7K1ICE, PW7K1R1E	Ⓑ
PRO22MX8	Ⓒ

THWD2 Door Backplane (Order Separately)

Altronix Power Supply

Altronix ACM8(CB)

Altronix PDS8(CB)

Altronix VR6 is mounted under PDS8(CB)
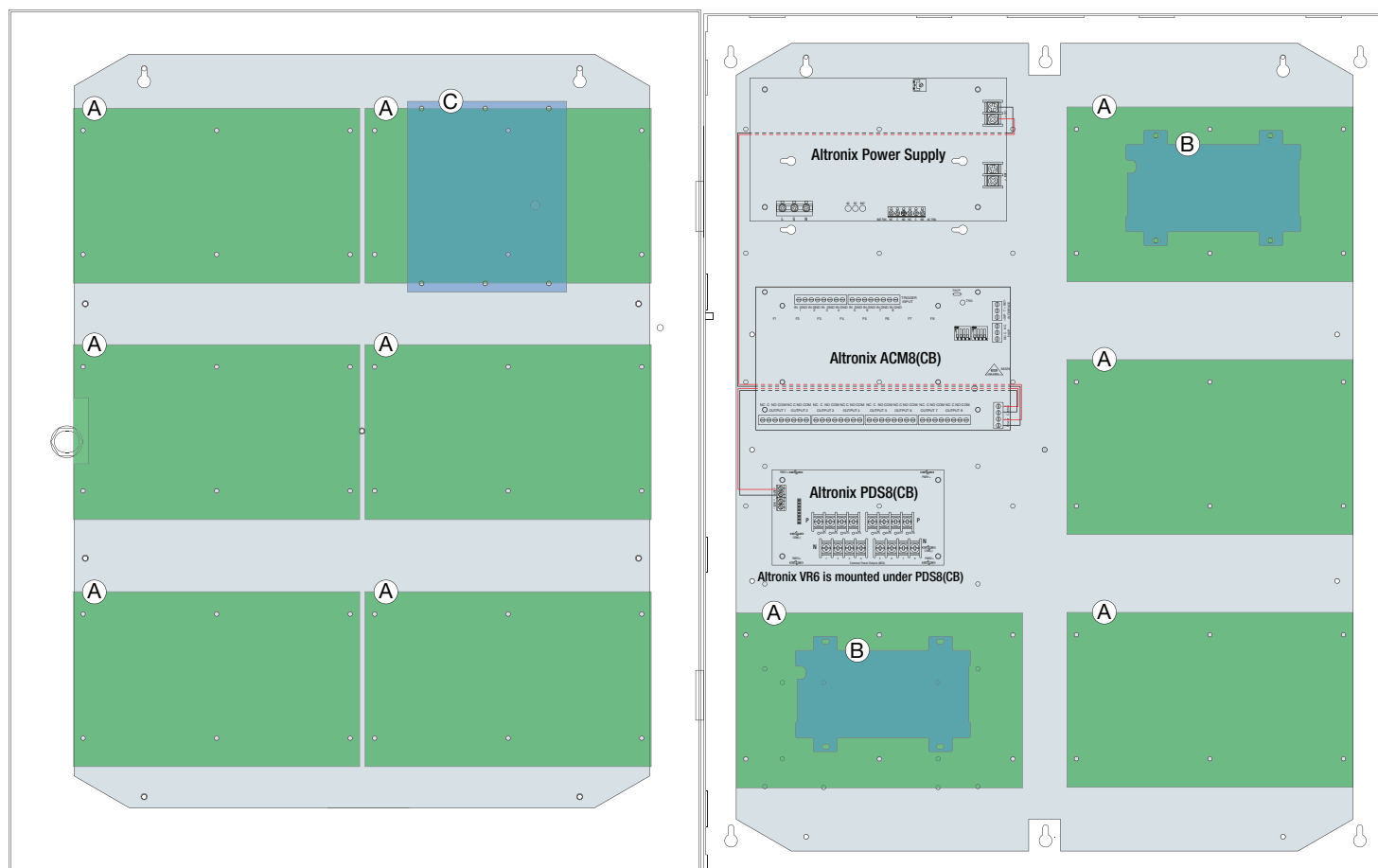
Accessories (order separately)

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 batteries

Trove2BWC 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.

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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)