Altronix®

Rev. 06022023

T2HWK7F8 (Kit)

Access & Power Integration Solution for Honeywell

TROVE™

Altronix T2HWK7F8 kit consists of Trove2 enclosure, THW2 Honeywell/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) fused access power controller, one (1) voltage regulator and one (1) dual input fused 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

T2HWK7F8

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
  - Low Battery and Battery Presence
  - Low power shutdown
- 16 gauge 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 (eFlow104NB):

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

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

Battery Charging
- Capacity: 12AH/12VDC (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 70-75% for 24V units. Prevents deep battery discharge

Indicators (LED)
- Input: 120VAC is present
- DC Output: Powered

Dual Input Power Distribution Module (PDS8):

Input
- Voltage: 24VDC from eFlow104NB 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 eFlow104NB

Output
- Voltage: 12VDC
- Current: 6A continuous
- Other: Surge suppression

Indicators (LED)
- Input: 24VDC is present
- Output: Powered

Access Power Controller (ACM8):

Input
- Voltage: 24VDC from eFlow104NB
- Input Fuse: 10A/250V

Outputs
- Voltage: 24VDC

Eight (8) 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: 3.5A/250V

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

T2HWK7F8 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.

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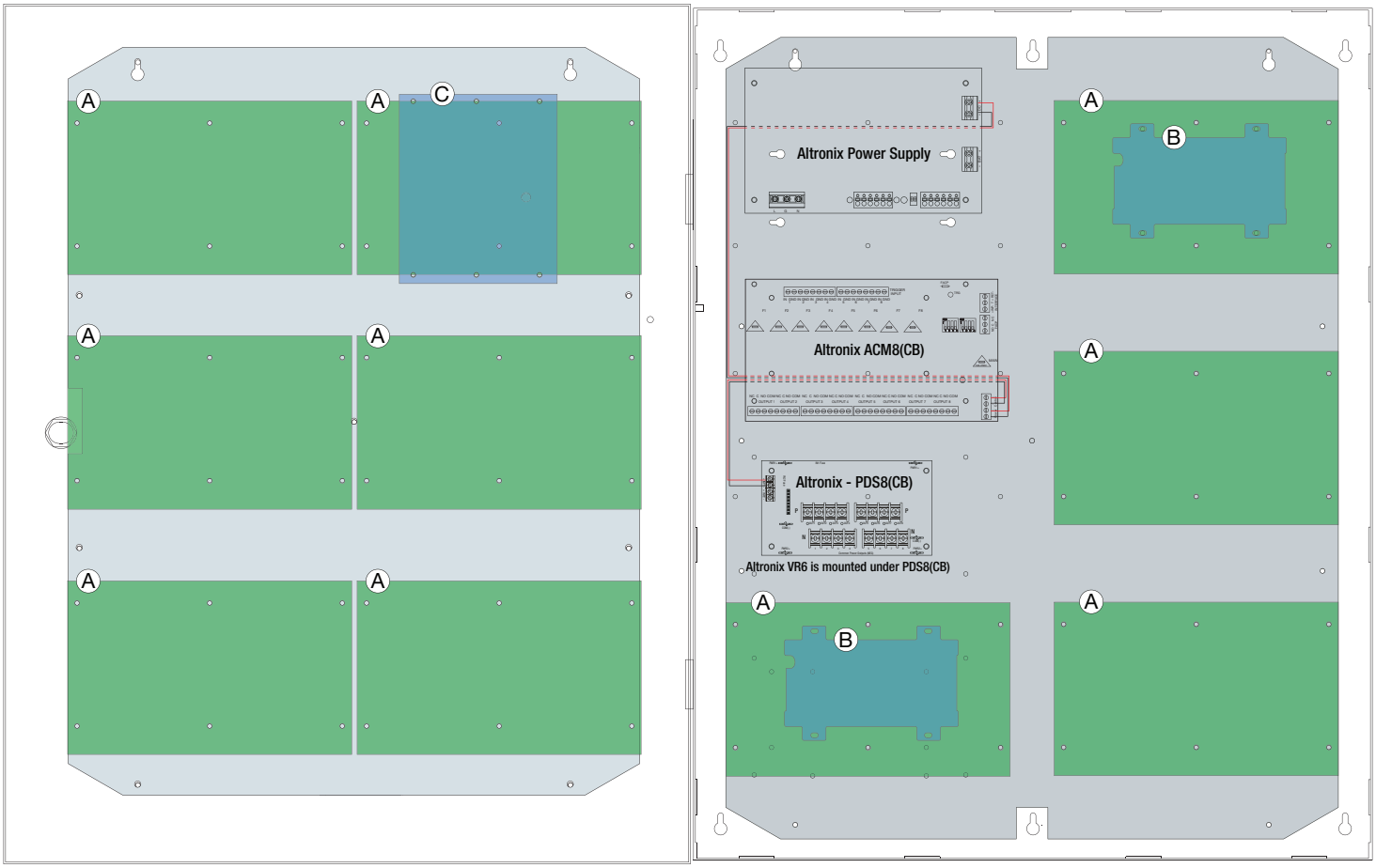
Access Controller Position Chart for the Following Models:

Honeywell Win-Pak/ProWatch	Pem Mounting
PRO42IC, PRO42R2, PRO42IN, PRO420UT, PW7K1IC, PW7K1R2, PW7K1IN, PW7K10UT	A
PW7K1ICE, PW7K1R1E	B
PRO22MX8	C

THWD2 Door Backplane (Order Separately)



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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.

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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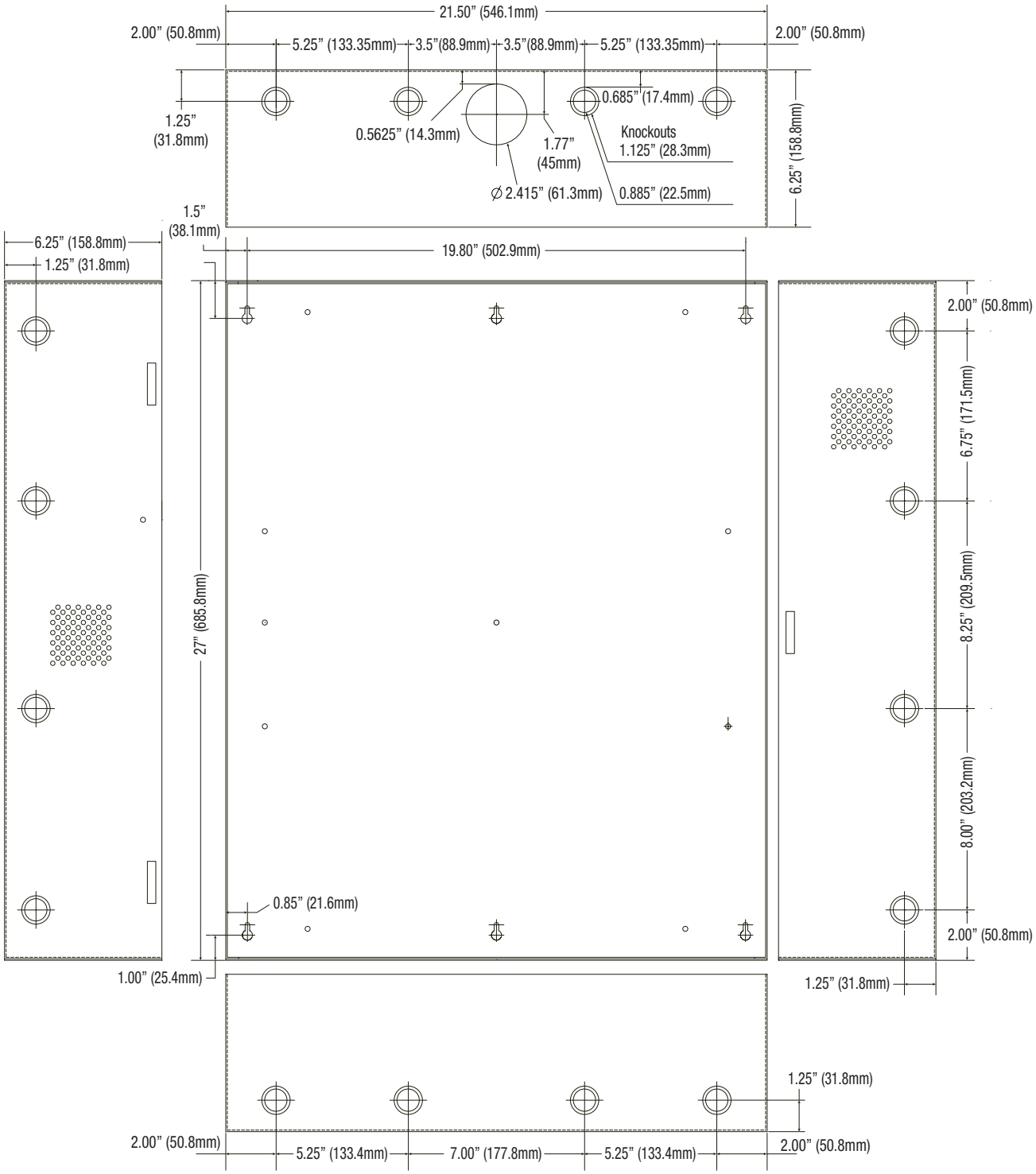
Dimensions and Drawing

Dimensions (H x W x D approximate)

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



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