

# T3HW75XK1DQ2 (Pre-wired Kit)

Access and Power Integration Solution for Honeywell



Altronix T3HW75XK1DQ2 is a 16-door access and power integration kit which includes Altronix power and sub-assemblies along with factory installed wire management and wire assemblies that are pre-configured with terminal blocks for Honeywell hardware. This unit provides ample power and dual voltage outputs to support Honeywell platform controllers and locking devices. The T3HW75XK1DQ2 accommodates up to one (1) Intelligent Controller and seven (7) Dual Reader Modules. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.



**Honeywell**  
THE POWER OF **CONNECTED**

T3HW75XK1DQ2 - includes eFlow104NB, eFlow102NB, LINQ2, (2) ACMS8CB, (2) PDS8CB, wire harnesses and finger duct

*Honeywell boards are not included*

## Key Features

- Accommodates the following Honeywell controllers:
  - 1 - PW7K11C/PRO421C and 7 - PW7K1R2/PRO42R2
- Convenient knockout configuration:
  - One (1) single knockout - 2" Conduit
  - Two (2) double knockout - 1.25" Conduit and 1.5" Conduit
  - Thirteen (13) double knockouts - 3/4" Conduit and 1" Conduit
- Unit includes:
  - Removable backplane
  - 3" high finger duct for wire management
  - Custom Wire Harnesses for power distribution and controller connections
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
- 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 four (4) 12VDC/12AH batteries
- Lifetime Warranty\*

*\*Altronix Power Supply/Chargers and Sub-Assemblies only*

**Specifications**

**Power Supply/Charger 1 (eFlow104NB):**

**Input**

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

**Output**

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

**Power Supply/Charger 2 (eFlow102NB):**

**Input**

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

**Output**

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

**Both Power Supplies:**

**Battery Charging**

Capacity 12VDC/12AH (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 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

**Network Communication Module (LINQ2):**

**Status Monitoring**

AC status; Output current draw; Unit's temperature;  
 DC output voltage; Low Battery/Battery presence detection  
 Input trigger state change; Output (relay and power supply) state change

**Programming**

Battery service date indication  
 Programmable via USB or web browser  
 Automated timed events:  
 - Control output relays and power supply via flexible timing parameter

**Reporting**

Programmable dashboard notifications  
 E-mail notification selectable by event  
 Event log tracks history (100+ events)

**Indicators (LED)**

Blue LED: Power ON

**Two (2) Dual Input Access Power Controllers (ACMS8CB):**

**Input**

Voltage 24VDC from eFlow104NB  
 12VDC from eFlow102NB

Input PTCs 9A

**Outputs**

Voltage 24VDC  
 Eight (8) 24VDC 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

**Two (2) Dual Input Power Distribution Modules (PDS8CB):**

**Input**

Voltage 24VDC from eFlow104NB  
 12VDC from eFlow102NB

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

**T3HW75XK1DQ2 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: 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)  
 Shipping: 40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)

**Weight (approx.)**

Product: 85.6 lb. (38.83 kg)  
 Shipping: 98.8 lb. (44.82 kg)

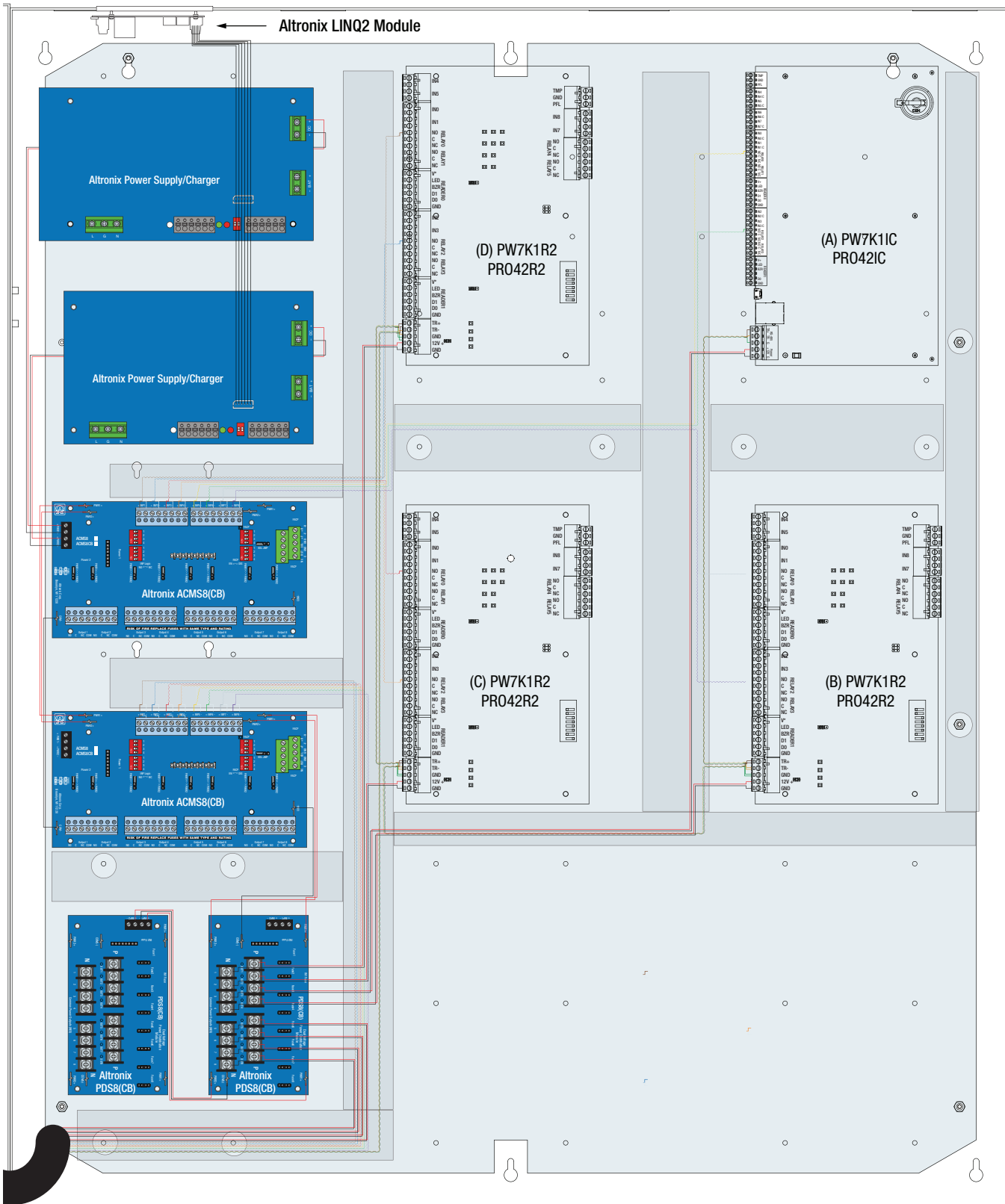
**Temperature**

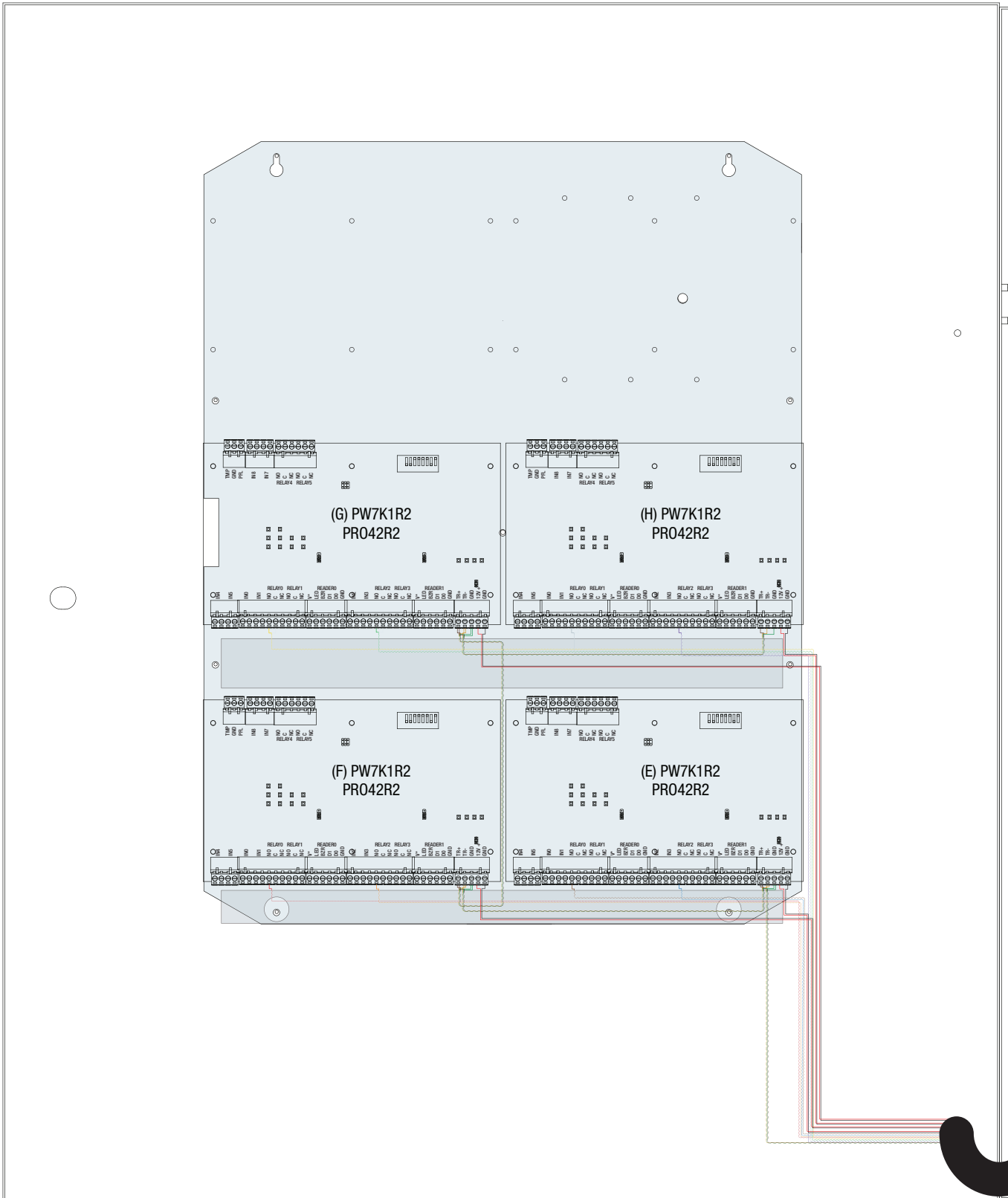
Operating 0°C to 49°C (32°F to 120°F)  
 Storage - 20°C to 70°C (- 4°F to 158°F)

Relative Humidity 85% +/- 5%  
 BTU/Hr. (approx.): 263 BTU/Hr.

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**Accessories** (order separately)



WM5

**WM5, WM25, WM100 - Magnetic Cable Tie Mounts**

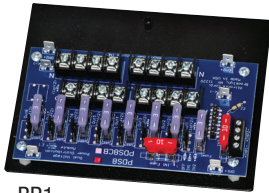
Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps. These are ideal for wire management in our Trove series.



Mounting Magnet

**MM4, MM8, MM12, MM24 - Magnetic Mounting Solution**

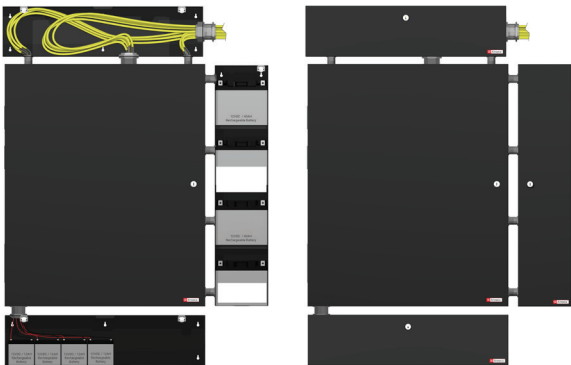
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/accessories in any metal enclosure or backplane.



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.



*Typical battery/wiring setup with Trove3 Enclosure (not included)*

**TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure**

Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets. Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.

**Dimensions and Drawing**

Dimensions (H x W x D approximate)  
 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

