# Altronix®

## T2HWK78 (Kit)

## Access & Power Integration Solution for Honeywell

### TROVE™

Altronix T2HWK78 kit consists of Trove2 enclosure, THW2 Honeywell/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) 8-output fused access power controller, one (1) voltage regulator and one (1) 8-output fused 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**

T2HWK78

*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 (PDS8):

**Input**

| | |
|---|---|
| Voltage | 24VDC from AL1024ULXB2 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 AL1024ULXB2 |

**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 AL1024ULXB2 |
| 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 |

### T2HWK78 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

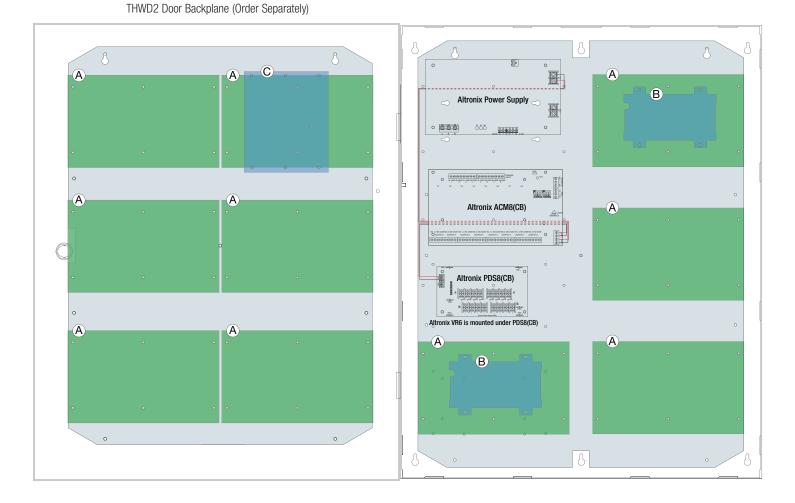| | |
|---|---|
| Operating | 0ºC to 49ºC (32ºF to 120ºF) |
| Storage | – 20ºC to 70ºC (– 4ºF to 158ºF) |
| Relative Humidity | 85% +/– 5% |
| BTU/Hr. (approx.): | 128 BTU/Hr. |

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TR⬜VE™

## 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, 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.

WM5

### 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.

Mounting Magnet

### 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.

BR1

### TROVE2BWC - Battery/Wire Trough Enclosure
Trove2BWC with batteries

Trove2BWC with wires

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.

## 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)



2.00" (50.8mm)

21.50" (546.1mm)

5.25" (133.35mm)  3.5"(88.9mm)  3.5"(88.9mm)  5.25" (133.35mm)

2.00" (50.8mm)

1.25" (31.8mm)

0.5625" (14.3mm)

0.685" (17.4mm)

Knockouts
1.125" (28.3mm)

1.77" (45mm)

6.25" (158.8mm)

Ø 2.415" (61.3mm)

0.885" (22.5mm)

1.5" (38.1mm)

6.25" (158.8mm)

1.25" (31.8mm)

19.80" (502.9mm)

2.00" (50.8mm)

6.75" (171.5mm)

27" (685.8mm)

8.25" (209.5mm)

8.00" (203.2mm)

0.85" (21.6mm)

2.00" (50.8mm)

1.00" (25.4mm)

1.25" (31.8mm)

1.25" (31.8mm)

2.00" (50.8mm)

5.25" (133.4mm)  7.00" (177.8mm)  5.25" (133.4mm)

2.00" (50.8mm)