

## T2AGK7512 (Kit)

Access & Power Integration Solution for AMAG M4000

Altronix T2AGK7512 kit consists of Trove2 enclosure, TAM2 AMAG/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) 12VDC @ 10A power supply/charger, one (1) 8-output fused access power controller, one (1) 4-output fused access power controller, and one (1) fused power distribution module.

This kit also accommodate up to three (3) AMAG M4000 modules for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



# TROVE™



T2AGK7512

*AMAG boards are not included*

### Key Features

- One (1) 24VDC and one 12VDC power supply/charger
- Accommodates up to three (3) AMAG M4000 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)
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- 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*

## Specifications

### Power Supply 1 (AL1024ULXB2):

|               |  |
|---------------|--|
| <b>Input</b>  |  |
| Voltage       | 115VAC 60Hz, 4.2A                              |
| Input Fuse    | 5A/250V  |
| <b>Output</b> |  |
| Voltage       | 24VDC  |
| Current       | 10A @ 24VDC continuous max.                    |
| Other         | Overvoltage protection. Filtered and regulated |

### Power Supply 2 (AL1012ULXB):

|               |  |
|---------------|--|
| <b>Input</b>  |  |
| Voltage       | 115VAC, 60Hz, 2.6A                             |
| Input Fuse    | 5A/250V  |
| <b>Output</b> |  |
| Voltage       | 12VDC  |
| Current       | 10A @ 12VDC continuous max.                    |
| Other         | Overvoltage protection. Filtered and regulated |

### Both Power Supplies:

#### Battery Charging

|                               |  |
|-------------------------------|--|
| Capacity                      | 12VDC/12AH (4 within enclosure)<br>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 |

### Access Power Controller (ACM8):

|   |  |
|---|--|
| <b>Input</b>                                      |  |
| Voltage   | 24VDC from AL1024ULXB2                   |
| Input Fuse  | 10A/250V                                 |
| <b>Outputs</b>                                    |  |
| 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                                |
| <b>Indicators (LED)</b>                           |  |
| Red LEDs  | Outputs are triggered (relays energized) |
| Green LED   | FACP disconnect is triggered             |

### Access Power Controller (ACM4):

|  |  |
|--|--|
| <b>Input</b>                                     |  |
| Voltage  | 24VDC from AL1024ULXB2                   |
| Input Fuse                                       | 10A/32V                                  |
| <b>Outputs</b>                                   |  |
| Voltage  | 24VDC                                    |
| Four (4) 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                                     | 3A/32V                                   |
| <b>Indicators (LED)</b>                          |  |
| Red LEDs   | Outputs are triggered (relays energized) |
| Green LED  | FACP disconnect is triggered             |

### Power Distribution Module (PD4UL):

|   |                       |
|---|-----------------------|
| <b>Input</b>  |                       |
| Voltage   | 12VDC from AL1012ULXB |
| <b>Outputs</b>  |                       |
| Voltage   | 12VDC                 |
| Four (4) fuse protected outputs. 3.5A per output max. |                       |
| Output Fuses  | 3.5A/250V             |
| <b>Indicators (LED)</b>                               |                       |
| Green LED   | DC Output             |

### T2AGK7512 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:  | 55.5 lb. (25.2 kg) |
| Shipping: | 60.5 lb. (27.4 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

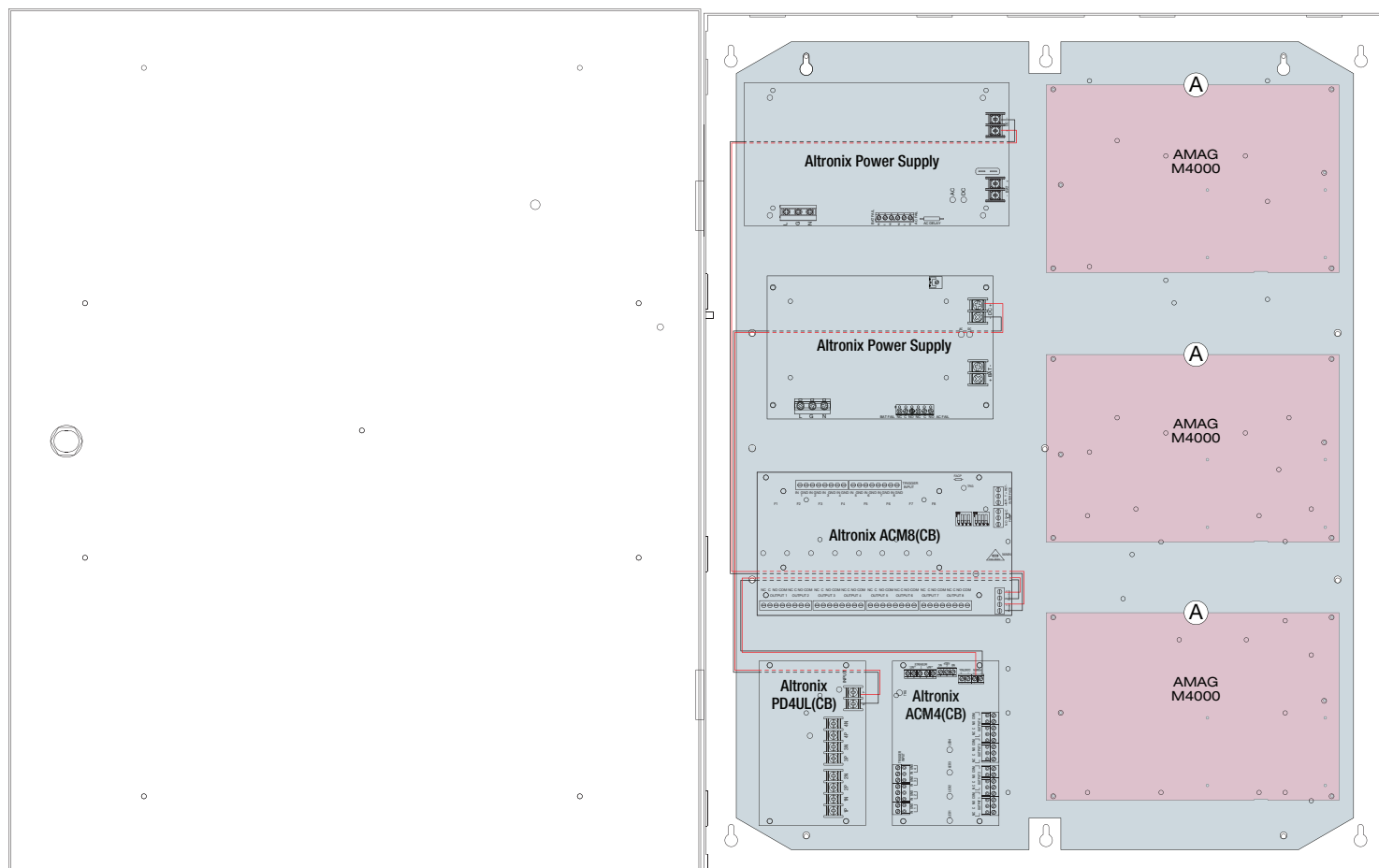
85% +/- 5%

##### BTU/Hr. (approx.):

177 BTU/Hr.

**Access Controller Position Chart for the Following Models:**

| AMAG   | Pem Mounting |
|--|--------------|
| M4000-DEC4, M4000-DEC4 w/M4000-DBB, M4000-IOC20/16 | (A)          |



## 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.

## 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)

