

## T2MK74 (Kit)

### Access & Power Integration Solution for Mercury



Altronix T2MK74 kit consists of Trove2 enclosure and TM2 Altronix & Mercury backplane with 24VDC @ 10A power supply/charger, four (4) fuse protected output access control module and eight (8) fuse protected output power distribution module. This kit also accommodates various combinations of Mercury\* boards for up to four (4) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

**\*Also compatible with these authentic Mercury partners:**

AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identocard, IMRON, Johnson Controls, Kastle, Keri Systems, Lenel/S2, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt



T2MK74

*Mercury boards are not included*

### Key Features

- 24VDC power supply/charger
- Accommodates the following Mercury controllers:  
Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Sixteen (16) double knockouts  
1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 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
- Lifetime Warranty\*

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

**Specifications****Power Supply/Charger (AL1024ULXB2):****Input**

|            |                   |
|------------|-------------------|
| Voltage    | 115VAC 60Hz, 4.2A |
| Input Fuse | 5A/250V           |

**Outputs**

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

**Battery Charging**

|                               |  |
|-------------------------------|--|
| Capacity                      | 12VDC/12AH (2 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 (ACM4):****Input**

|            |                        |
|------------|------------------------|
| Voltage    | 24VDC from AL1024ULXB2 |
| Input Fuse | 10A/32V                |

**Outputs**

|  |       |
|--|-------|
| 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 |
|--------------|--------|

**Indicators (LED)**

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

**Power Distribution Module (PD8UL):****Input**

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

**Outputs**

|         |           |
|---------|-----------|
| Voltage | 24VDC     |
| Fuses   | 3.5A/250V |

**Indicators (LED)**

|           |           |
|-----------|-----------|
| Green LED | DC Output |
|-----------|-----------|

**T2MK74 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:  | 39.2 lb. (17.78 kg) |
| Shipping: | 43 lb. (19.5 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.): | 145 BTU/Hr. |
|--------------------|-------------|

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

| Altronix/Mercury                      | Pem Mounting |
|---------------------------------------|--------------|
| LP2500, MUX8                          | (A)          |
| LP1502, LP4502, MR52, MR16IN, MR16OUT | (B)          |
| LP1501, MR62e                         | (C)          |
| MR50                                  | (D)          |



**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)

