

T2MK5F8 (Kit)

Access & Power Integration Solution for Mercury



Altronix T2MK5F8 kit consists of Trove2 enclosure and TM2 Altronix & Mercury backplane with 12VDC @ 10A power supply/charger, a eight (8) fuse protected output access power controller and eight (8) fuse protected output power distribution module. This kit also accommodates various combinations of Mercury* boards for up to eight (8) 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



T2MK5F8

Mercury boards are not included

Key Features

- 12VDC 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 gauge 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 (eFlow102NB):

| | |
|---------------|--|
| Input | |
| Voltage | 120VAC, 60Hz, 3.5A |
| Input Fuse | 5A/250V |
| Output | |
| Voltage | 12VDC @ 10A |
| Auxiliary | 1A (unswitched). |
| Protection | Overvoltage protection. Filtered and regulated |

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 (depending on the power supply)
 Prevents deep battery discharge

Indicators (LED)

| | |
|-----------|-----------------------------|
| AC Input | 120VAC is present |
| DC Output | Powered |
| Battery | Discharged or not connected |

Power Distribution Module (PD8UL):

| | |
|-------------------------|-----------------------|
| Input | |
| Voltage | 12VDC from eFlow102NB |
| Outputs | |
| Voltage | 12VDC |
| Fuses | 3.5A/250V |
| Indicators (LED) | |
| Green LED | DC Output |

Access Power Controller (ACM8):

| | |
|--|--|
| Input | |
| Voltage | 12VDC from eFlow102NB |
| Input Fuse | 10A/250V |
| Outputs | |
| Voltage | 12VDC |
| 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 | 3.5A/250V |
| Indicators (LED) | |
| Red LEDs | Outputs are triggered (relays energized) |
| Green LED | FACP disconnect is triggered |

T2MK5F8 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 | 39.6 lb. (18 kg) |
| Shipping | 43.35 lb. (19.66 kg) |

Temperature

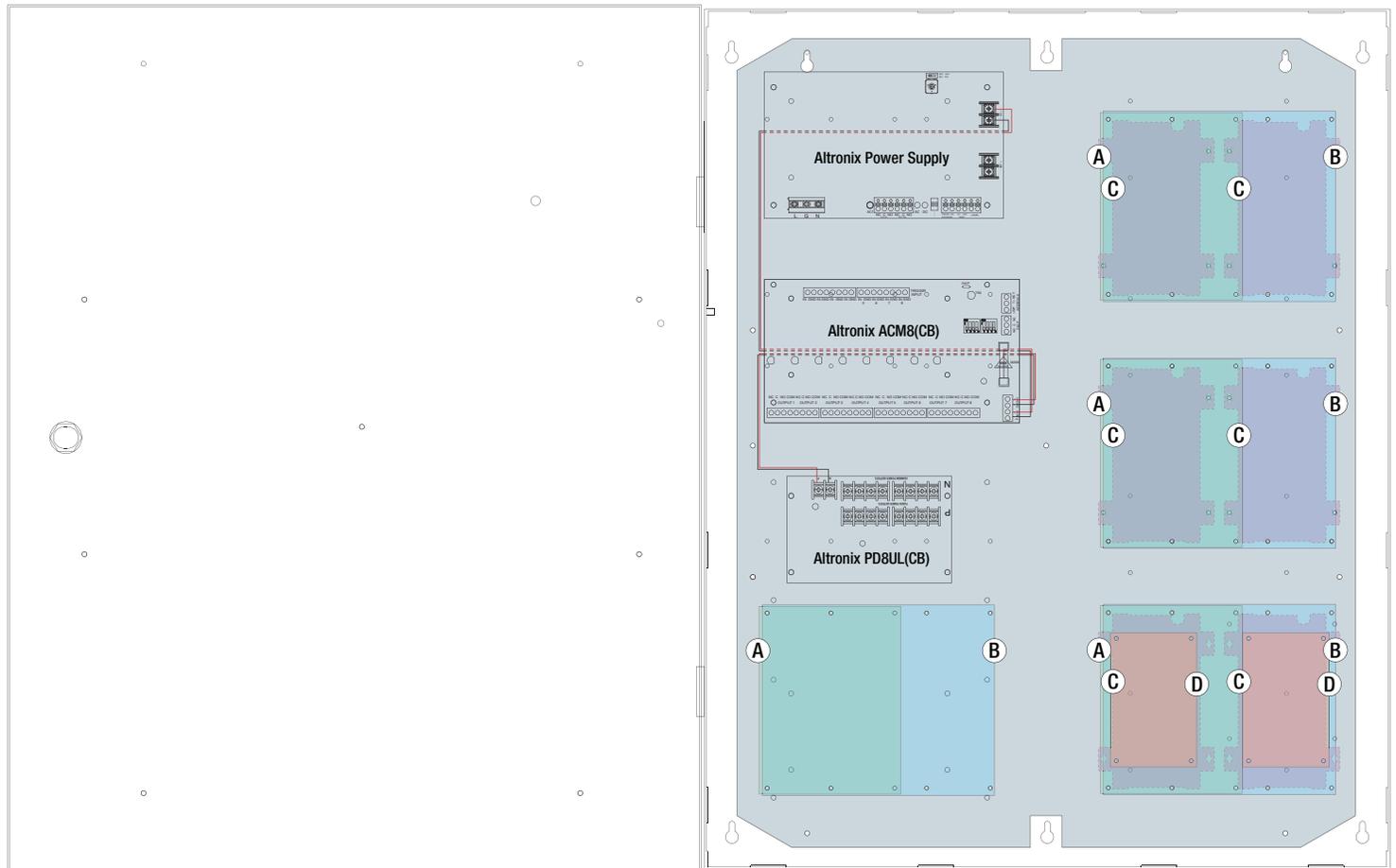
| | |
|-----------|---------------------------------|
| Operating | 0°C to 49°C (32°F to 120°F) |
| Storage | - 20°C to 70°C (- 4°F to 158°F) |

Relative Humidity 85% +/- 5%

BTU/Hr (approx.): 61 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)



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.

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)

