

## T2MK3F8Q2 (Kit)

Access & Power Integration Solution for Mercury

# TROVE™

Altronix T2MK3F8Q2 kit consists of Trove2 enclosure and TM2 Mercury/Altronix backplane with 12VDC or 24VDC @ 6A power supply/charger, LING2 Network Communication Module and eight (8) fuse protected output access controller module. This kit also accommodates various combinations of Mercury/Lenel\* 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



T2MK3F8Q2



*Mercury boards are not included*

### Key Features

- 12VDC or 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)
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- Management interface for up to two (2) eFlow power supply/chargers
- 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/Charger (eFlow6NB):**

**Input**

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

**Output**

Voltage 24VDC  
 Current 6A continuous  
 Auxiliary 1A (unswitched)  
 Other Overvoltage protection. Filtered and regulated

**Battery Charging**

Capacity 12VDC/12AH (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

**Low DC Power Shutdown**

Shuts down DC output terminals if battery voltage drops below 70-75% for 24V units (depending on the power supply)  
 Prevents deep battery discharge

**Indicators (LED)**

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

**Access Power Controller (ACM8):**

**Input**

Voltage 24VDC from eFlow6NB  
 Input Fuse 10A/250V

**Outputs**

Voltage 24VDC  
 Eight (8) 24VDC 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

**T2MK3F8Q2 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)

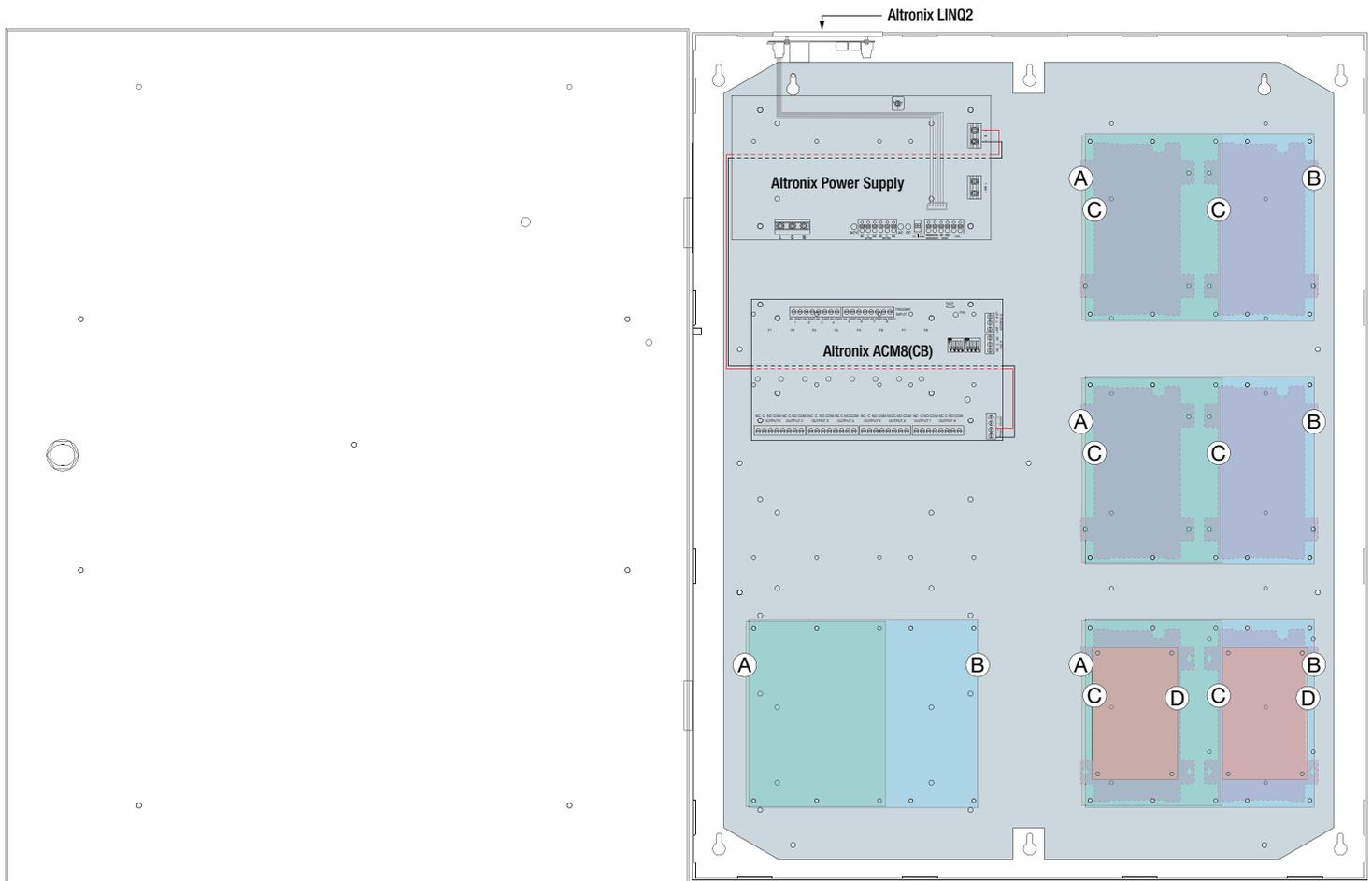
**Relative Humidity**

85% +/- 5%

BTU/Hr (approx.): 87 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  
batteriesTrove2BWC  
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)

