

## T2MK3F4DQ (Kit)

Access & Power Integration Solution for Mercury

# TROVE™

Altronix T2MK3F4DQ kit consists of Trove2 enclosure and TM2 Altronix & Mercury backplane with 12VDC or 24VDC (factory set at 24VDC) @ 6A power supply/charger, Network communication module, 12VDC voltage regulator, eight (8) PTC protected output dual voltage power distribution module and four (4) PTC protected output access control 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



T2MK3F4DQ

*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
- 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
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 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
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### Voltage Regulator (VR6):

#### Input

Voltage	24VDC from eFlow6NB
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#### Output

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

### Indicators (LED)

Input	24VDC is present
Output	Powered

### Dual Input Power Distribution Module (PDS8CB):

#### Input

Voltage	24VDC from eFlow6NB and 12VDC from VR6
Input PTCs	9A

#### 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 PTCs	2.5A

### Indicators (LED)

DC Output Eight (8) individual output LEDs	
Green:	12VDC
Red:	24VDC

### Access Power Controller (ACM4CB):

#### Input

Voltage	24VDC from eFlow6NB
Input Fuse	10A/32V

#### Outputs

Voltage	24VDC.
Four (4) independently controlled PTC 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 PTCs	2.5A

### Indicators (LED)

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

### T2MK3F4DQ 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)

