

**T2MK75F16Q (Kit)**

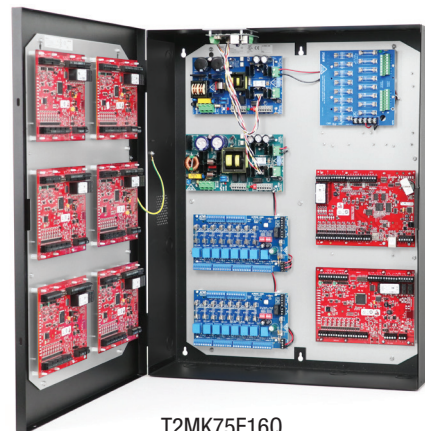
Access &amp; Power Integration Solution for Mercury

**TROVE™**

Altronix T2MK75F16Q kit consists of Trove2 enclosure, TM2 Altronix/Mercury backplane and TMV2 door backplane with 24VDC @ 10A and 12VDC @ 10A power supply/chargers, Network communication module, sixteen (16) fuse protected output power distribution module and two eight (8) fuse protected output access control modules. 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

**T2MK75F16Q***Mercury boards are not included***Key Features**

- 24VDC and 12VDC power supply/chargers
- 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 1 (eFlow104NB):

#### Input

Voltage	120VAC, 60Hz, 4.5A
Input Fuse	6.3A/250V

#### Output

Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

### Power Supply/Charger 2 (eFlow102NB):

#### Input

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

#### Output

Voltage	12VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

### Both Power Supplies:

#### 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	

#### 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 and 70-75% for 24V 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

### 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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### Two (2) Access Power Controllers (ACM8):

#### Input

Voltage	24VDC from eFlow104NB
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

### Power Distribution Module (PD16W):

#### Input

Voltage	12VDC from eFlow102NB
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#### Outputs

Voltage	12VDC
Fuses	3.5A/250V

#### Indicators (LED)

Green LED	DC Output
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### T2MK75F16Q 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	50 lb. (22.68 kg)
Shipping	53.75 lb. (24.38 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

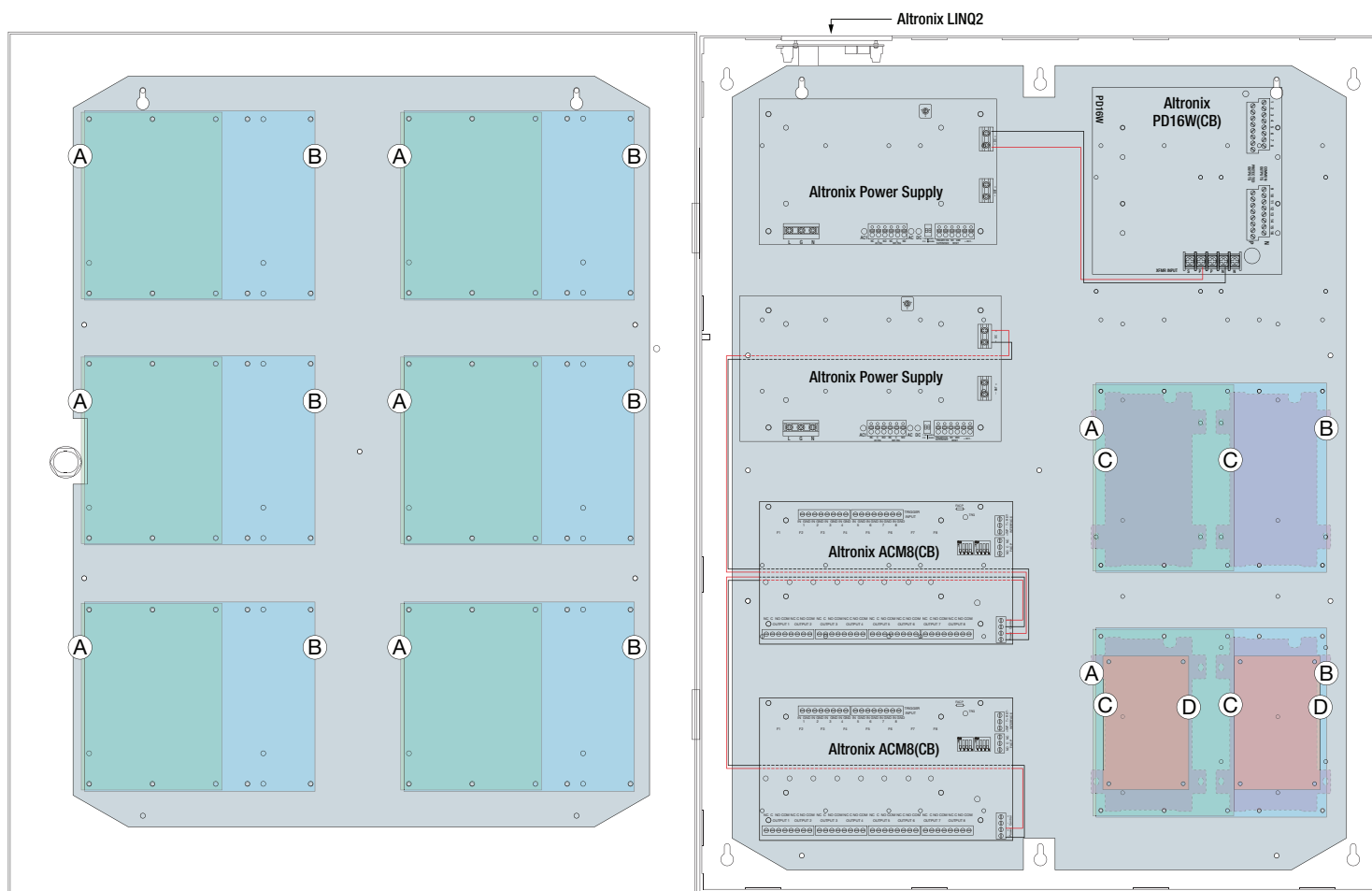
85% +/- 5%

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

217 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)

