

# Access & Power Integration Solution for Mercury

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Altronix T2MK77F16Q kit consists of Trove2 enclosure, TM2 Altronix & Mercury backplane and TMV2 door backplane with two 24VDC @ 10A power supply/chargers, Network communication module, 12VDC voltage regulator, eight (8) fuse protected output dual voltage 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 sixteen (16) 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, Identicard, IMRON, Johnson Controls, Kastle, Keri Systems, Lenel/S2, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt







Mercury boards are not included

#### Key Features -

- 24VDC power supply/chargers
- Accommodates the following Mercury controllers: Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR160UT, 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\*

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



## **T2MK77F16Q** (Kit) -

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#### Specifications -

Two (2) Power Power Supply/Chargers (eFlow104NB):

Input

Voltage 120VAC, 60Hz, 9A

Input Fuse 6.3A/250V

Output

Voltage 24VDC @ 10A Auxiliary 1A (unswitched)

Protection 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

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

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.

Voltage Regulator (VR6):

Input

Voltage 24VDC from eFlow104NB

Output

Voltage 12VDC
Current 6A continuous
Other Surge suppression

Indicators (LED)

Input 24VDC is present Output Powered

**Dual Input Power Distribution Module (PDS8)** 

Input

Voltage 24VDC from eFlow104NB and 12VDC from VR6

Input Fuses 10A/32V

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 Fuses 3A/32V

Indicators (LED)

DC Output Eight (8) individual output LEDs

Green: 12VDC Red: 24VDC

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

T2MK77F16Q 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 49.8 lb. (22.59 kg) Shipping 53.55 lb. (24.29 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.): 289 BTU/Hr.

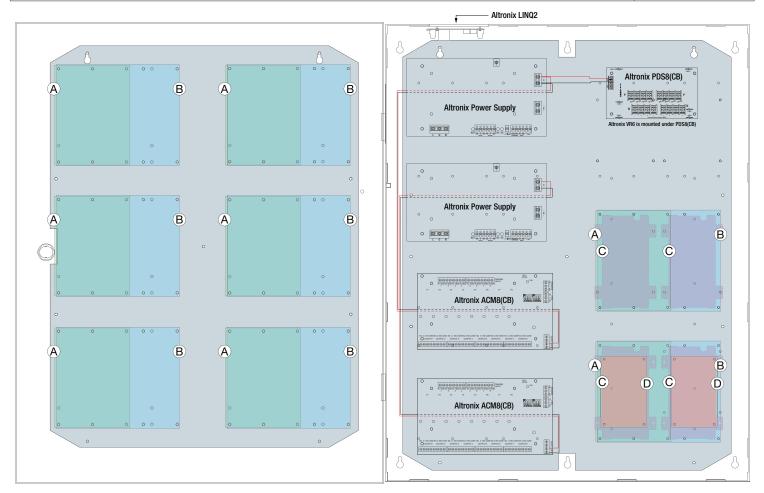


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# **Access Controller Position Chart for the Following Models:**

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





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### Accessories (order separately)



#### 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.



## 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 - 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 - 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.



# **T2MK77F16Q** (Kit)

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## **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)

