

# T1MK1F4SAQ (Kit)

Access & Power Integration Solution for Mercury



Altronix T1MK1F4SAQ kit consists of Trove1 enclosure and TM1 Altronix & Mercury backplane with 12VDC or 24VDC (factory set at 24VDC) @ 4A power supply/charger, 12VDC voltage regulator, eight (8) fuse protected output managed 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



T1MK1F4SAQ

*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) double knockout  
1.948" (1-1/2" Conduit) / 1.701" (1-1/4" Conduit)
  - Nine (9) 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 two (2) 12VDC/7AH batteries
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- 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*

## 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.

## Specifications

### Power Supply (eFlow4NB):

#### Input

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

#### Output

Voltage	24VDC
Current	4A continuous
Other	Overvoltage protection. Filtered and regulated

### Battery Charging

Capacity	12VDC/7AH (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

### Voltage Regulator (VR6):

#### Input

Voltage	24VDC from eFlow4NB
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#### Output

Voltage	12VDC
Current	4A continuous
Other	Surge suppression

### Indicators (LED)

Input	24VDC is present
Output	Powered

### Network Access Power Controller (LINQ8ACM):

#### Input

Voltage	24VDC from eFlow4NB and 12VDC from VR6
Input Fuses	15A/32V

#### Outputs

Any of the eight (8) fuse protected 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

### Programming Features:

#### Eight (8) Programmable Outputs:

- Fail-safe, fail-secure or auxiliary outputs
- Input controlled or manually controlled through software
- High (over) and low (under) voltage and current monitoring by output
- Multiple outputs may be programmed to be triggered by a single input
- Battery back-up by output

#### Eight (8) Programmable Trigger Inputs:

- Normally open (NO), Normally closed (NC) or Open collector sink inputs
- Wet Input (5VDC - 24VDC) with 10k resistor
- Any combination of the above

#### Other Programmable Trigger Inputs:

- Monitor power supply(ies) input for voltage and current limits (high/low)
- Input and output current calibration, Programmable timer events
- Programmable user levels, Enable or disable alerts by type
- Programmable alert reporting delay

### Indicators (LED)

<b>Green AC LED:</b>	indicates AC trouble condition
<b>Green BAT LED:</b>	indicates battery trouble condition
<b>Green FACP LED:</b>	indicates FACP disconnect is triggered
<b>Flashing Blue Heartbeat LED:</b>	indicates network connection
<b>Individual OUT1 - OUT8 Red LEDs:</b>	indicate outputs are triggered
<b>Individual Voltage LEDs:</b>	indicate 12VDC (Green) or 24VDC (Red)

### T1MK1F4SAQ 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: 18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm)

Shipping: 21.75" x 18.25" x 5.75" (552.5mm x 463.6mm x 146.1mm)

#### Weight (approx.)

Product	16.23 lb. (7.36 kg)
Shipping	20.23 lb. (9.07 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

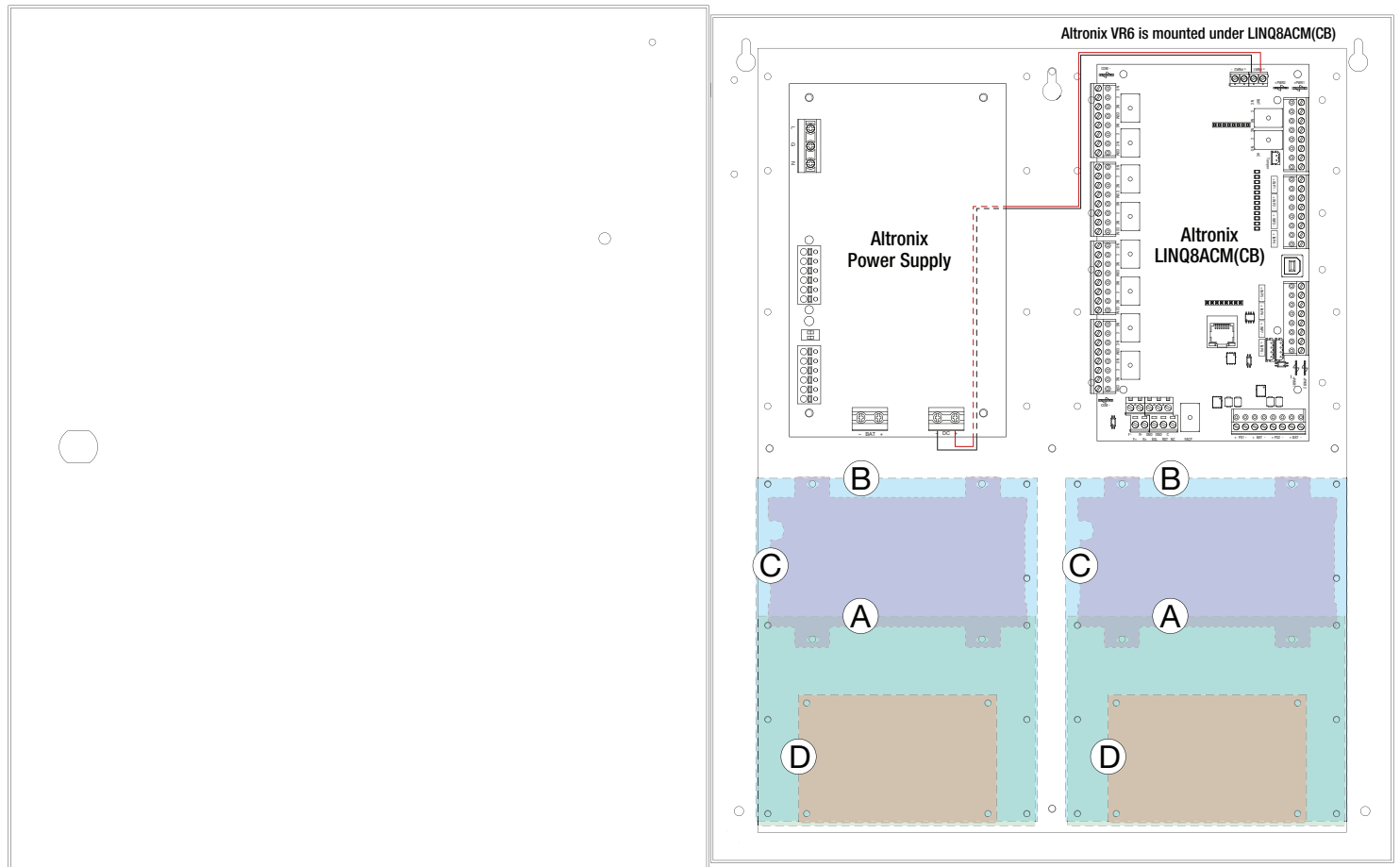
85% +/- 5%

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

90 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)



**Dimensions and Drawing**

Dimensions (H x W x D approximate)  
 18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm)

