

## T1MK1F4SADQ (Kit)

Access & Power Integration Solution for Mercury



Altronix T1MK1F4SADQ 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) PTC 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



T1MK1F4SADQ



*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

**Output**

Voltage 12VDC  
 Current 4A continuous  
 Other Surge suppression

**Indicators (LED)**

Input 24VDC is present  
 Output Powered

**Network Access Power Controller (LINQ8ACMCB):**

**Input**

Voltage 24VDC from eFlow4NB and 12VDC from VR6

Input PTCs 9A

**Outputs**

Any of the eight (8) PTC protected 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

**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)**

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

**T1MK1F4SADQ 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**

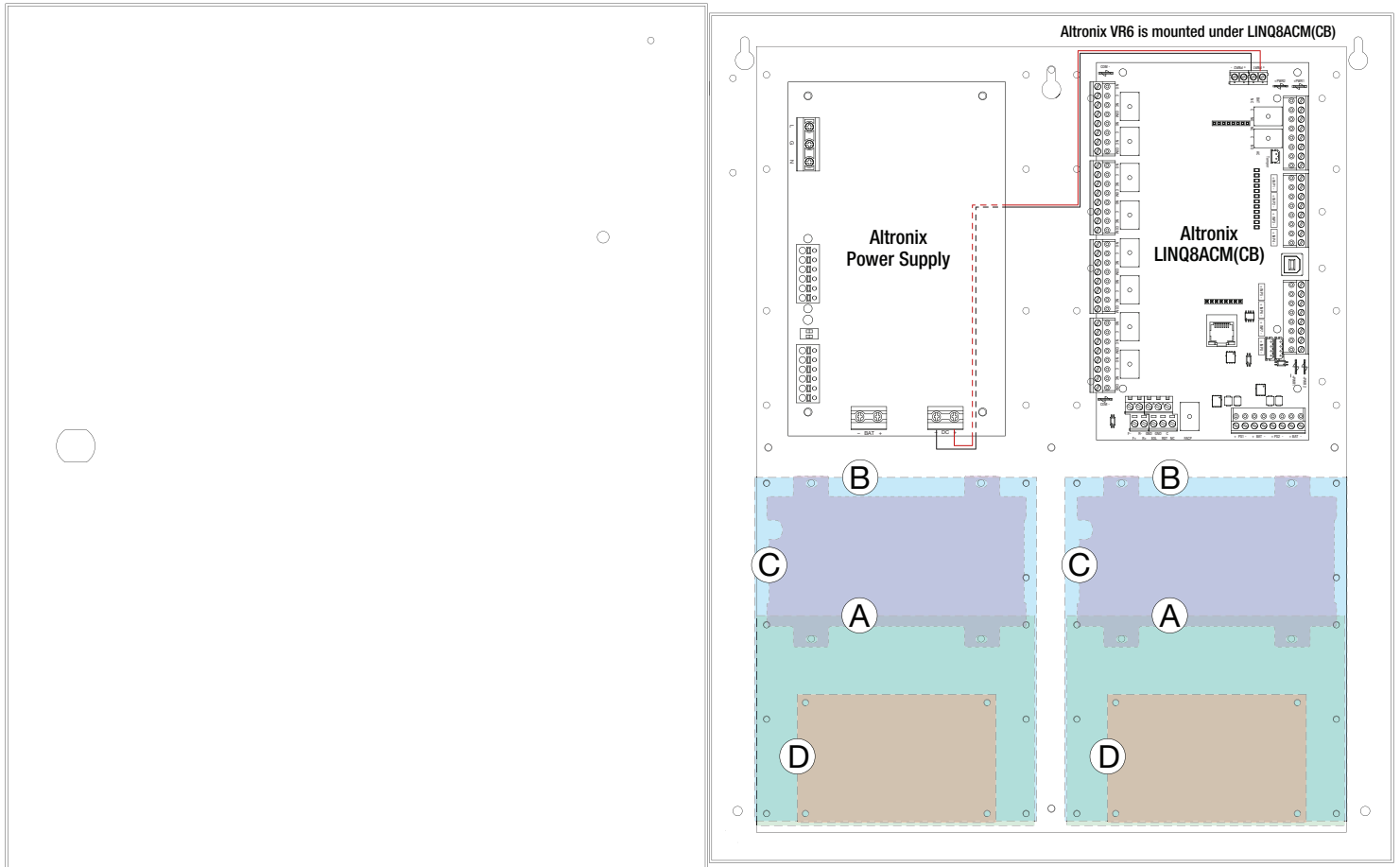
85% +/- 5%

**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)

