

## Access & Power Integration Solution for Mercury

Altronix T1MK1F4 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 and four (4) fuse 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, 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**

- 12VDC or 24VDC power supply/charger
- Accommodates the following Mercury controllers: Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR160UT, 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 AWG 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)



### LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email



#### 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.



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### Specifications -

Power Supply (eFlow4NB):

Input

Voltage 120VAC, 60Hz, 3.5A

Fuse Rating 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 6A continuous
Other Surge suppression

Indicators (LED)

Input 24VDC is present

Output Powered

**Access Power Controller (ACM4):** 

Input

Voltage 24VDC from eFlow4NB

Input Fuse 10A/32V

Outputs

Voltage 24VDC

Four (4) 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 3A/32V

Indicators (LED)

Red LEDs Outputs are triggered (relays energized)

Green LED FACP disconnect is triggered

T1MK1F4 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)

Shippina:

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.

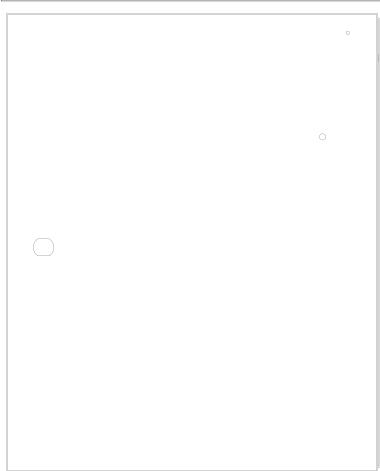


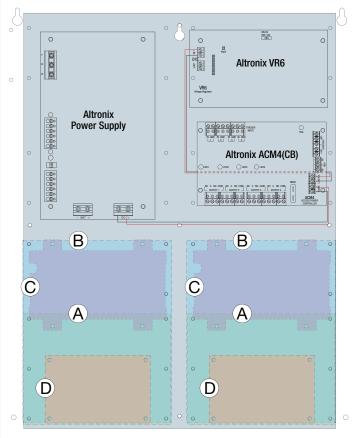
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# **Access Controller Position Chart for the Following Models:**

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







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## **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)

