Altronix®

T1MK1F4SD (Kit)

Access & Power Integration Solution for Mercury

TROVE™

Altronix T1MK1F4SD 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 dual voltage power distribution module and four (4) PTC 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™ SECURITY

T1MK1F4SD

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 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

LINQ2

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.

WM5

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.

Mounting Magnet

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.

Access Power Controller (ACM4CB):

Input
Voltage	24VDC from eFlow4NB
Input Fuse	10A/32V

Outputs
Voltage	24VDC

Four (4) independently controlled PTC 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 PTCs	2.5A

Indicators (LED)
Red LEDs	Outputs are triggered (relays energized)
Green LED	FACP disconnect is triggered

Dual Input Power Distribution Module (PDS8CB)

Input
Voltage	24VDC from eFlow4NB and
	12VDC from VR6
Input PTCs	9A

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 PTCs	2.5A

Indicators (LED)
DC Output	Eight (8) individual output LEDs
Green:	12VDC
Red:	24VDC

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

T1MK1F4SD 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
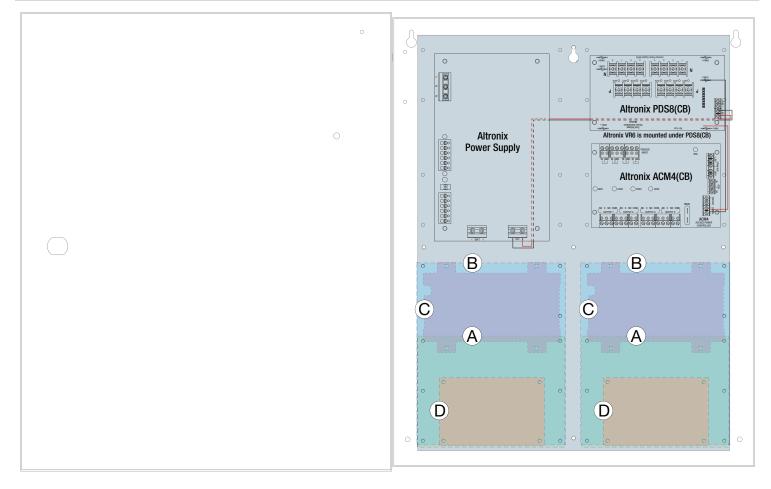|	
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	− 20ºC to 70ºC (− 4ºF to 158ºF)
Relative Humidity	85% +/− 5%
BTU/Hr (approx.):	90 BTU/Hr.

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Access Controller Position Chart for the Following Models:

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

Altronix Power Supply

Altronix PDS8(CB)

Altronix VR6 is mounted under PDS8(CB)

Altronix ACM4(CB)

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TR□VE™

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)

14.5" (321.3mm)

7.25" (184.2mm)

1.45" (36.8mm)

⌀1.95" (49.5mm)

4.5" (114.3mm)

1.25" (31.8mm)

13.0" (330.2mm)

1.25" (31.8mm)

1.5" (38.1mm)

0.6" (15.2mm)

1.5" (38.1mm)

0.57" (14.5mm)

8.5" (215.9mm)

8.5" (215.9mm)

18.0" (457.2mm)

6.5" (165.1mm)

6.5" (165.1mm)

0.6" (15.2mm)

1.1" (27.9mm)

4.5" (114.3mm)

4.5" (114.3mm)

2.75" (69.9mm)

⌀1.115" (28.3mm)

1.36" (34.5mm)

1.25" (31.8mm)