Altronix®

T1MK14 (Kit)

Access & Power Integration Solution for Mercury

TROVE™

Altronix T1MK14 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™ SECURITY

T1MK14

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
  - Battery Fail and Battery Presence
- 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 (AL400ULXB2):

Input
Voltage	115VAC, 60Hz, 3.5A
Input Fuse	5A/250V

Output
Voltage	12VDC or 24VDC selectable
Current	4A @ 12VDC or 3A @ 24VDC continuous max
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

Indicators (LED)
Input	115VAC is present
DC Output	Powered
Battery	Discharged or not connected

Voltage Regulator (VR6):

Input
Voltage	24VDC from AL400ULXB2

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 AL400ULXB2
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

T1MK14 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.

Access Controller Position Chart for the Following Models:

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

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)