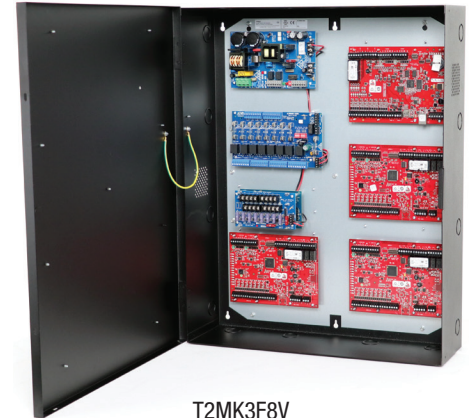# Altronix®

T2MK3F8V (Kit)

Access & Power Integration Solution for Mercury

TROVE™

Altronix T2MK3F8V kit consists of Trove2 enclosure and TM2 Altronix & Mercury backplane with 12VDC or 24VDC (factory set at 24VDC) @ 6A power supply/charger, 12VDC voltage regulator, eight (8) fuse protected output dual voltage power distribution module and eight (8) fuse protected output access control module. This kit also accommodates various combinations of Mercury* boards for up to eight (8) 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

T2MK3F8V

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) single knockout 2.415" (2" Conduit)
  - Sixteen (16) 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 four (4) 12VDC/12AH batteries
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- CE European Conformity
- Lifetime Warranty*

*Altronix Power Supply/Chargers and Sub-Assemblies only

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Specifications

Power Supply/Charger (eFlow6NBV):

Input
Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz, 2.5A
Input Fuse	5A/250V

Output
Voltage	24VDC
Current	6A continuous
Auxiliary	1A (unswitched)
Other	Overvoltage protection. Filtered and regulated

Battery Charging
Capacity	12VDC/12AH (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	220VAC is present
DC Output	Powered
Battery	Discharged or not connected

Dual Input Power Distribution Module (PDS8):

Input
Voltage	24VDC from eFlow6NBV and 12VDC from VR6
Input Fuses	10A/32V

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 Fuses	3A/32V

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

Voltage Regulator (VR6):

Input
Voltage	24VDC from eFlow6NBV

Output
Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)
Input	24VDC is present
Output	Powered

Access Power Controller (ACM8):

Input
Voltage	24VDC from eFlow6NBV
Input Fuse	10A/250V

Outputs
Voltage	24VDC

Eight (8) 24VDC 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	3.5A/250V

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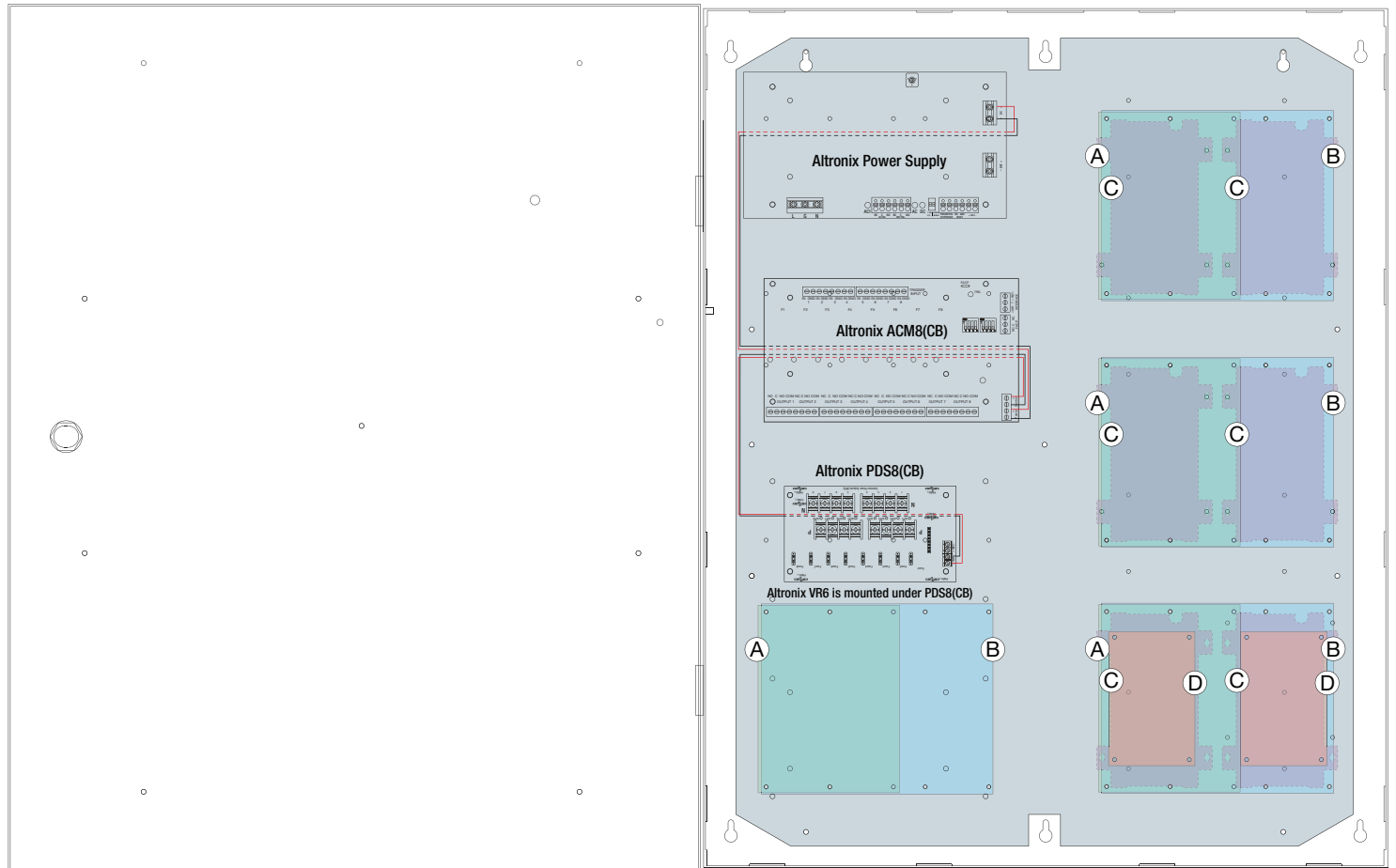|	
Red LEDs	Outputs are triggered (relays energized)
Green LED	FACP disconnect is triggered

T2MK3F8V Kit:

Agency Listings
CE	European Conformity

Physical and Environmental
Dimensions (H x W x D)
Enclosure: 27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)
Shipping: 32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm)
Weight (approx.)
Product	39.6 lb. (18 kg)
Shipping	43.35 lb. (19.66 kg)

Temperature
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr (approx.):	87 BTU/Hr.

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 ACM8(CB)

Altronix PDS8(CB)

Altronix VR6 is mounted under PDS8(CB)

Accessories (order separately)

LINQ2 - Network Supervision

LINQ2

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

WM5

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

Mounting Magnet

Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/accessories in any metal enclosure or backplane.

BR1 - Sub-Assembly Mounting Bracket

BR1

Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.

TROVE2BWC - Battery/Wire Trough Enclosure

Trove2BWC with batteries

Trove2BWC with wires

Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution. The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets. Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.

Dimensions and Drawing

Dimensions (H x W x D approximate)

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm)