Altronix®

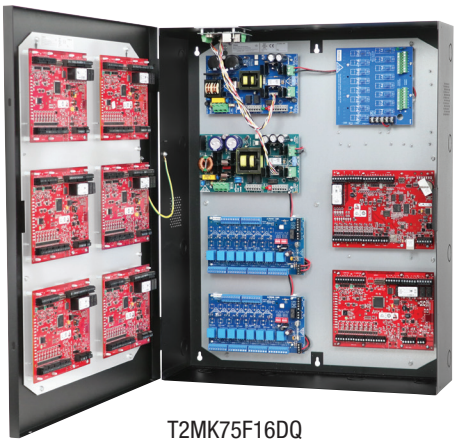
Rev. 06082023

T2MK75F16DQ (Kit)

Access & Power Integration Solution for Mercury

TROVE™

Altronix T2MK75F16DQ kit consists of Trove2 enclosure, TM2 Altronix/Mercury backplane and TMV2 door backplane with 24VDC @ 10A and 12VDC @ 10A power supply/chargers, Network communication module, sixteen (16) PTC protected output power distribution module and two eight (8) PTC protected output access control modules. 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.



T2MK75F16DQ

Mercury boards are not included

***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™

Key Features

- 24VDC and 12VDC power supply/chargers
- 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)
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown
- Management interface for up to two (2) eFlow power supply/chargers
- 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
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Lifetime Warranty*

**Altronix Power Supply/Chargers and Sub-Assemblies only*

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Specifications

Power Supply/Charger 1 (eFlow104NB):

Input
- Voltage: 120VAC, 60Hz, 4.5A
- Input Fuse: 6.3A/250V

Output
- Voltage: 24VDC @ 10A
- Auxiliary: 1A (unswitched)
- Protection: Overvoltage protection. Filtered and regulated

Power Supply/Charger 2 (eFlow102NB):

Input
- Voltage: 120VAC, 60Hz, 3.5A
- Input Fuse: 5A/250V

Output
- Voltage: 12VDC @ 10A
- Auxiliary: 1A (unswitched)
- Protection: Overvoltage protection. Filtered and regulated

Both Power Supplies:

Battery Charging
- Capacity: 12VDC/12AH (4 within enclosure)
  40AH/65AH (requires separate enclosure)
- Type: Sealed lead acid or gel type
- Failover: Upon AC loss, instantaneous

Batteries are sold separately

Fire Alarm Disconnect
- Supervised: Latching or non-latching
- EOL: 10K Resistor

Supervision
- AC Failure: Form "C" contacts
- Battery: Form "C" contacts
- Low DC Power Shutdown
  Shuts down DC output terminals if battery voltage drops below 71-73% for 12V units and 70-75% for 24V units (depending on the power supply)
  Prevents deep battery discharge

Indicators (LED)
- AC Input: 120VAC is present
- DC Output: Powered
- Battery: Discharged or not connected

Network Communication Module (LINQ2):

Status Monitoring

AC status; Output current draw; Unit's temperature;
DC output voltage; Low Battery/Battery presence detection.
Input trigger state change; Output (relay and power supply) state change

Programming

Battery service date indication
Programmable via USB or web browser
Automated timed events:
- Control output relays and power supply via flexible timing parameter

Reporting

Programmable dashboard notifications
E-mail notification selectable by event
Event log tracks history (100+ events)

Indicators (LED)
- Blue LED: Power ON

Two (2) Access Power Controllers (ACM8CB):

Input
- Voltage: 24VDC from eFlow104NB
- Input Fuse: 10A/250V

Outputs
- Voltage: 24VDC

Eight (8) 24VDC 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

Power Distribution Module (PD16WCB):

Input
- Voltage: 12VDC from eFlow102NB

Outputs
- Voltage: 12VDC
- PTCs: 2.5A

Indicators (LED)
- Green LED: DC Output

T2MK75F16DQ 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: 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: 50 lb. (22.68 kg)
- Shipping: 53.75 lb. (24.38 kg)

Temperature
- Operating: 0ºC to 49ºC (32ºF to 120ºF)
- Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)

- Relative Humidity: 85% +/– 5%
- BTU/Hr (approx.): 217 BTU/Hr.

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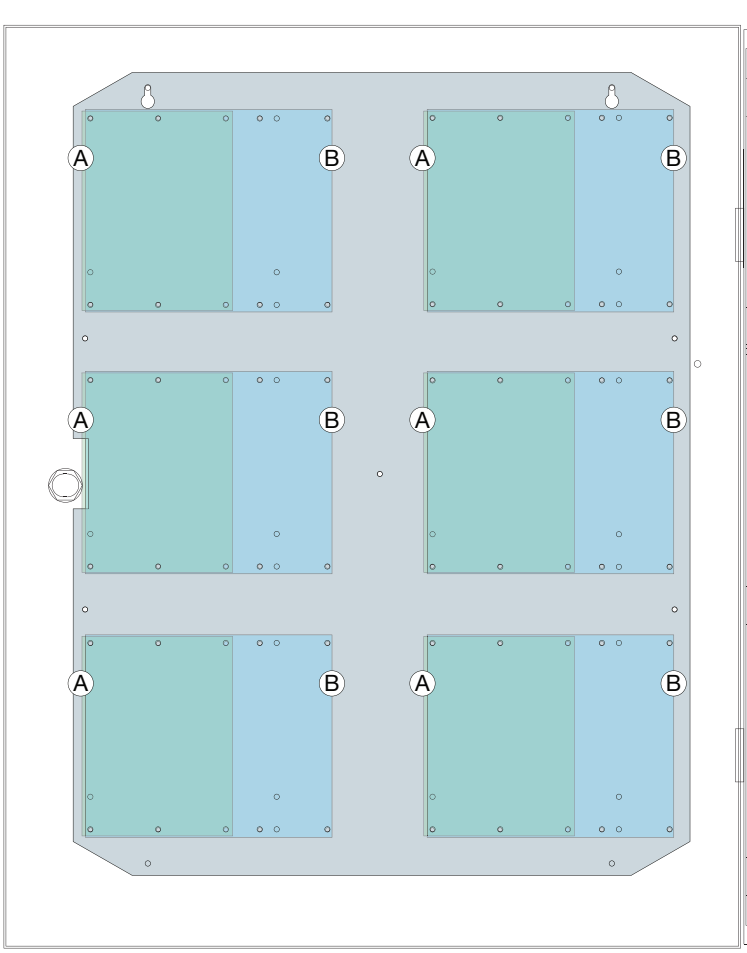
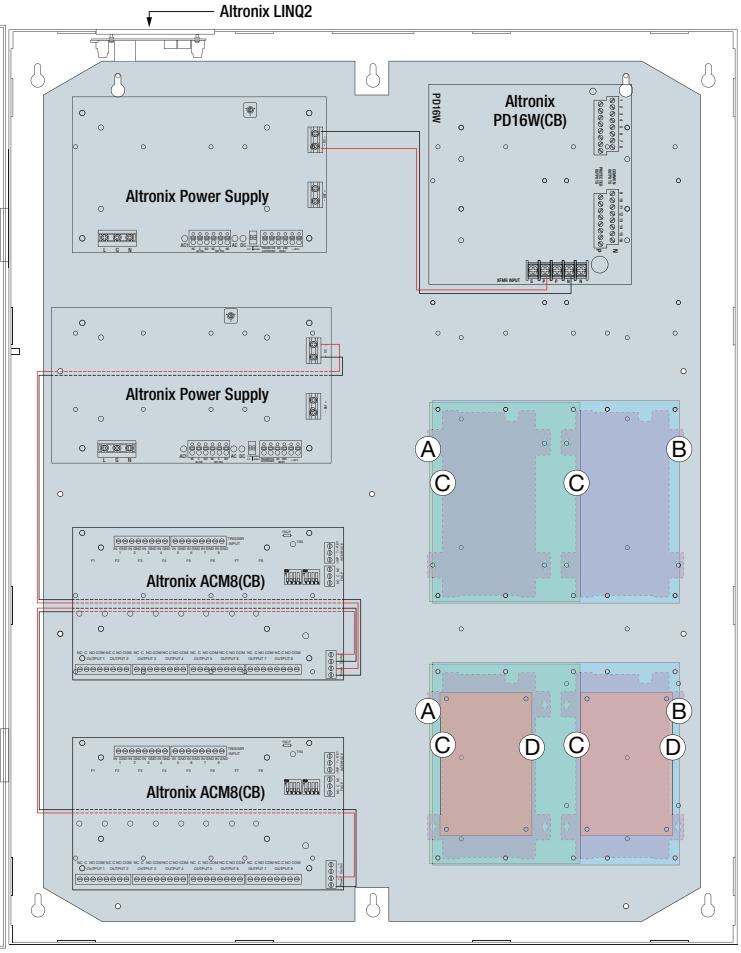
Access Controller Position Chart for the Following Models:

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





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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.

BR1

BR1 - Sub-Assembly Mounting Bracket

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 with batteries

Trove2BWC with wires

TROVE2BWC - Battery/Wire Trough Enclosure

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.

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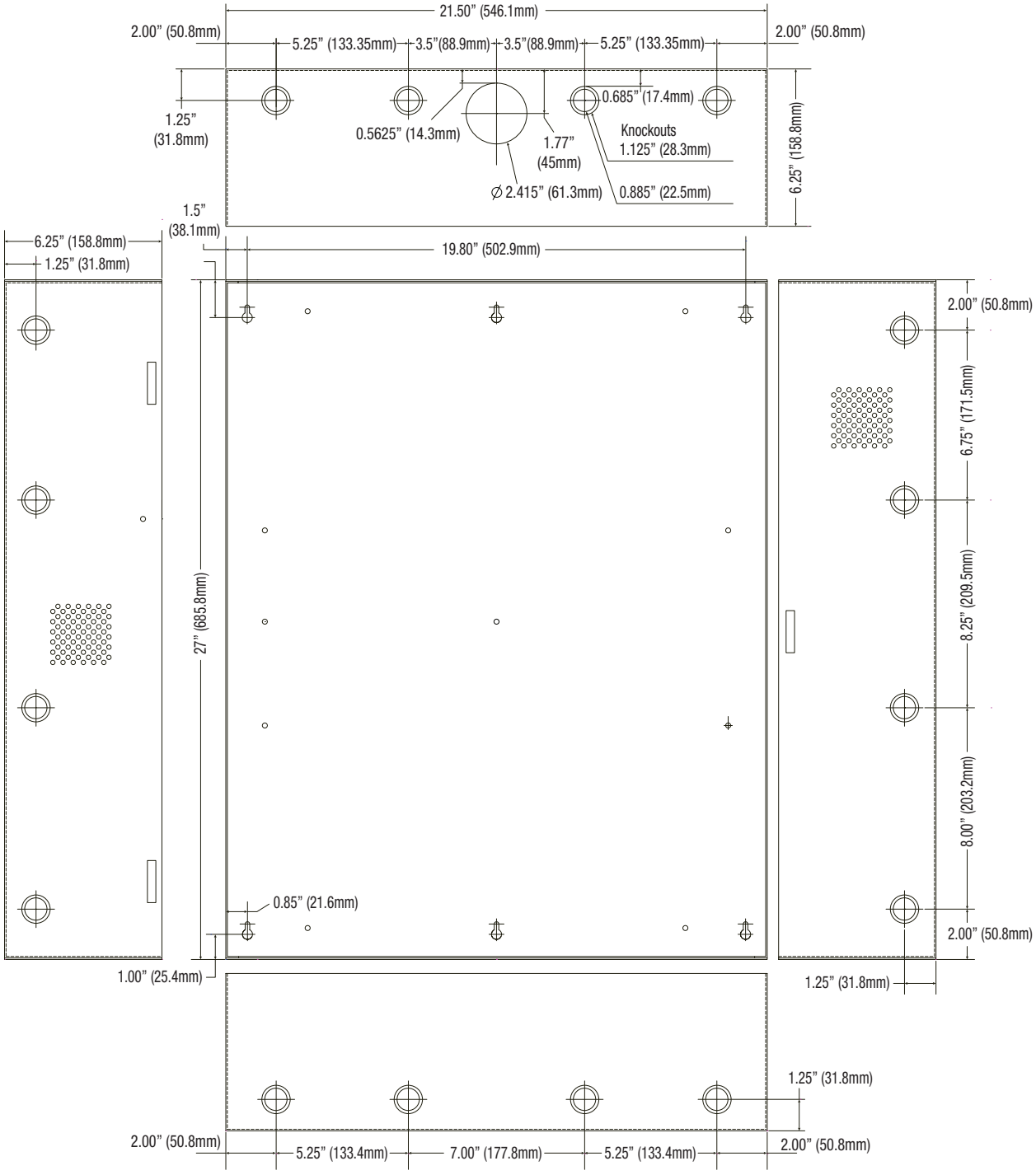
Dimensions and Drawing

Dimensions (H x W x D approximate)

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



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