

T2MK75F16DQV (Kit)

Access & Power Integration Solution for Mercury



Altronix T2MK75F16DQV 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.

***Also compatible with these authentic Mercury partners:**

AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identocard, IMRON, Johnson Controls, Kastle, Keri Systems, Lenel/S2, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt



T2MK75F16DQV



Mercury boards are not included

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

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

Specifications

Power Supply/Charger 1 (eFlow104NBV):

Input	
Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz, 2.7A
Input Fuse	6.3A/250V
Output	
Voltage	24VDC @ 10A
Auxiliary	1A (unswitched)
Protection	Overvoltage protection. Filtered and regulated

Power Supply/Charger 2 (eFlow102NBV):

Input	
Voltage	220VAC (working range 198VAC - 256VAC), 50/60Hz, 2.1A
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	220VAC 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
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Two (2) Access Power Controllers (ACM8CB):

Input	
Voltage	24VDC from eFlow104NBV
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 eFlow102NBV
Outputs	
Voltage	12VDC
PTCs	2.5A
Indicators (LED)	
Green LED	DC Output

T2MK75F16DQV Kit:

Agency Listings

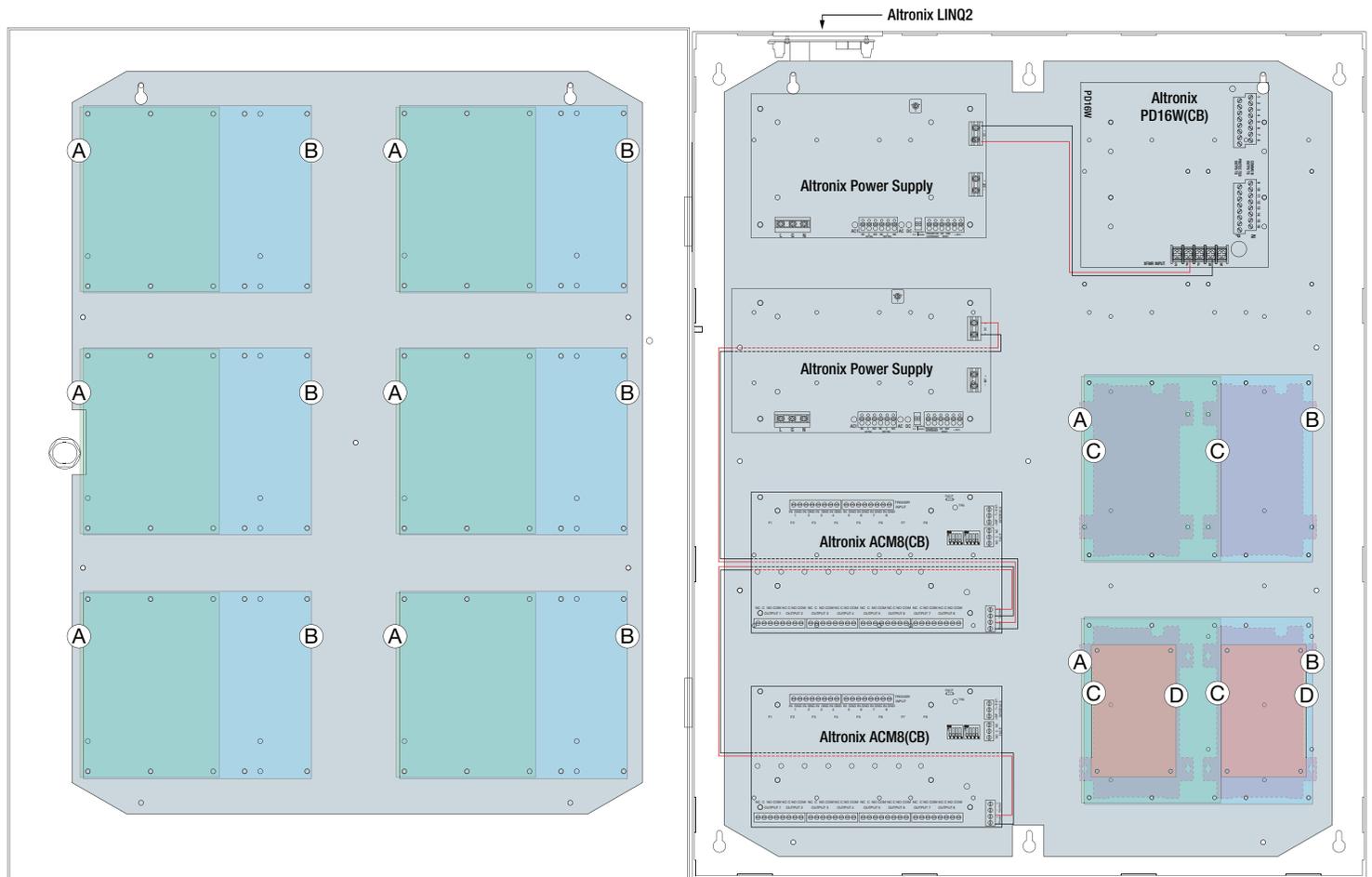
CE	European Conformity
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Physical and Environmental

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	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.):	217 BTU/Hr.

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)



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.

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)

