TROVE™

T2MK75F16DQ
Access & Power Integration Solution

Altronix®

Description

Altronix T2MK75F16DQ kit consists of Trove2 enclosure, TM2 Altronix & Mercury/LenelS2 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/LenelS2* boards for up to sixteen (16) 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, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt

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Key Features

- Accommodates the following Mercury/LenelS2 controllers:
  Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8.
  LenelS2: LNL-(X)2210, LNL-(X)2220, LNL-(X)3300, LNL-(X)4420, LNL-1100, LNL-1200, LNL-1320, LNL-1300, LNL-1324e, LNL-8000

- 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.

- Supervision
  - AC Fail

- Supervision *(cont'd)*
  - Low Battery and Battery Presence
  - Low power shutdown.

- Management interface for up to two (2) eFlow power supply/chargers.

- Management interface software included (USB flash drive)

- Agency Listings:
  - UL: UL294 - Access Control System.
  - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems.
  - CE European Conformity.

- Enclosure accommodates up to four (4) 12VDC/12AH batteries.

- Lifetime Warranty*/Made in the U.S.A.

*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.

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Specifications

Power Supply 1 (eFlow104NB):

Input

Voltage	120VAC, 60Hz, 4.5A max.
Input Fuse	6.3A/250V.

Output

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

Power Supply 2 (eFlow102NB):

Input

Voltage	120VAC, 60Hz, 3.5A max.
Input Fuse	5A/250V.

Output

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

Both Power Supplies:

Battery Backup

Type	Sealed lead acid or gel type.
Fuse Rating	15A/32VDC.
Failover	Upon AC loss, instantaneous.

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

Class 2 power-limited auto-resettable 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) 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

Class 2 power-limited auto-resettable 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)
 27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm).

Weight (approx.)

Product	50 lb. (22.68 kg).
Shipping	53.75 lb. (24.38 kg).

Temperature

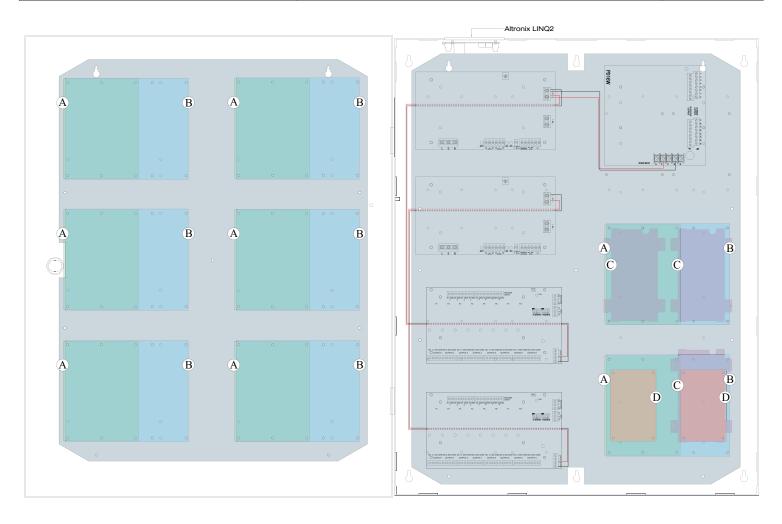|	
Operating	0ºC to 49ºC (32ºF to 120ºF).
Storage	-20ºC to 70ºC (-4ºF to 158ºF).
Relative Humidity	85% +/-5%.
BTU/Hr. (approx.):	217 BTU/Hr.

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Access Controller Position Chart for the Following Models:

Mercury	LenelS2	Pem Mounting
LP2500, MUX8	LNL-(X)3300, LNL-8000	Ⓐ
LP1502, LP4502, MR52, MR16IN, MR16OUT	LNL-(X)2220, LNL-(X)4420, LNL-1100, LNL-1200, LNL-1320	Ⓑ
LP1501, MR62e	LNL-(X)2210, LNL-1324e	Ⓒ
MR50	LNL-1300	Ⓓ

Altronix LINQ2

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21.50" (546.1mm)
2.00" (50.8mm)
5.25" (133.35mm)
3.5"(88.9mm)
3.5"(88.9mm)
5.25" (133.35mm)
2.00" (50.8mm)
1.25" (31.8mm)
0.5625" (14.3mm)
0.685" (17.4mm)
Knockouts
1.125" (28.3mm)
1.77" (45mm)
6.25" (158.8mm)
⌀ 2.415" (61.3mm)
0.885" (22.5mm)
1.5" (38.1mm)
6.25" (158.8mm)
1.25" (31.8mm)
19.80" (502.9mm)
2.00" (50.8mm)
6.75" (171.5mm)
8.25" (209.5mm)
27" (685.8mm)
8.00" (203.2mm)
0.85" (21.6mm)
2.00" (50.8mm)
1.00" (25.4mm)
1.25" (31.8mm)
1.25" (31.8mm)
2.00" (50.8mm)
5.25" (133.4mm)
7.00" (177.8mm)
5.25" (133.4mm)
2.00" (50.8mm)