

#### Description

Altronix T2MK77F16DQ kit consists of Trove2 enclosure, TM2 Altronix & Mercury/LeneIS2 backplane and TMV2 door backplane with two 24VDC @ 10A power supply/chargers, Network communication module, 12VDC voltage regulator, eight (8) PTC protected output dual voltage power distribution module and two eight (8) PTC protected output access control modules. This kit also accommodates various combinations of Mercury/LeneIS2\* 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, Identocard, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt



T2MK77F16DQ

#### Key Features

- Accommodates the following Mercury/LeneIS2 controllers:  
Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8.  
LeneIS2: 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.

**Specifications**

**Two (2) Power Supplies (eFlow104NB):**

**Input**

Voltage	120VAC, 60Hz, 9A max.
Input Fuse	6.3A/250V.

**Output**

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

**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 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.

**Voltage Regulator (VR6):**

**Input**

Voltage	24VDC from eFlow104NB.
---------	------------------------

**Output**

Voltage	12VDC.
Current	6A continuous.
Other	Surge suppression.

**Indicators (LED)**

Input	24VDC is present.
Output	Powered.

**Dual Input Power Distribution Module (PDS8CB):**

**Input**

Voltage	12VDC from VR6 and 24VDC from eFlow6NB.
Input PTC Rating	9A.

**Outputs**

Class 2 power-limited auto-resettable 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.

**Outputs Ratings**

PTCs	2.5A.
------	-------

**Indicators (LED)**

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

**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.

**T2MK77F16DQ 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	49.8 lb. (22.59 kg).
Shipping	53.55 lb. (24.29 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.):** 289 BTU/Hr.

**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	Ⓓ



