

# T3M75XK2 (Pre-wired Kit)

## Access and Power Integration Solution for Mercury



Altronix T3M75XK2 is a 14-door access and power integration kit which includes Altronix power and sub-assemblies along with factory installed wire management and wire assemblies that are pre-configured with terminal blocks for Mercury hardware. This unit provides ample power and dual voltage outputs to support Mercury platform controllers and locking devices. The T3M75XK2 accommodates one (1) Intelligent Controller and seven (7) Dual Reader Interface Modules. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.

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

AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identicon, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintrion, RS2, S2 Security, Schneider Electric, Vanderbilt



T3M75XK2 - includes  
(1) eFlow104NB, (1) eFlow102NB, (2) ACMS8,  
(2) PDS8, wire harnesses and finger duct

*Mercury boards are not included*

## Key Features

- Accommodates the following Mercury controllers:  
1 - LNL-3300 / LP2500 and 7 - MR52
- Convenient knockout configuration:
  - One (1) single knockout - 2" Conduit
  - Two (2) double knockout - 1.25" Conduit and 1.5" Conduit
  - Thirteen (13) double knockouts - 3/4" Conduit and 1" Conduit
- Unit includes:
  - Removable backplane
  - 3" high finger duct for wire management
  - Custom Wire Harnesses for power distribution and controller connections
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
  - Low power shutdown
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- 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
- Lifetime Warranty\*

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

## 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

### Two (2) Dual Input Power Distribution Modules (PDS8):

#### Input

Voltage	24VDC from eFlow104NB, 12VDC from eFlow102NB
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

### Two (2) Dual Input Access Power Controllers (ACMS8):

#### Input

Voltage	24VDC from eFlow104NB, 12VDC from eFlow102NB
Input Fuses	15A/32V

#### Outputs

Voltage	12 or 24VDC individually selectable
Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs:	
a) Fail-Safe and/or Fail-Secure power outputs	
b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated	
c) Auxiliary power outputs (unswitched)	
d) Any combination of the above	

Any of the eight (8) fuse protected 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
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#### Indicators (LED)

Red LEDs	Outputs are triggered (relays energized)
Blue LED	FACP disconnect is triggered
Individual voltage LEDs:	
Green:	12VDC
Red:	24VDC

### T3M75XK2 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: 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

Shipping: 40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)

##### Weight (approx.)

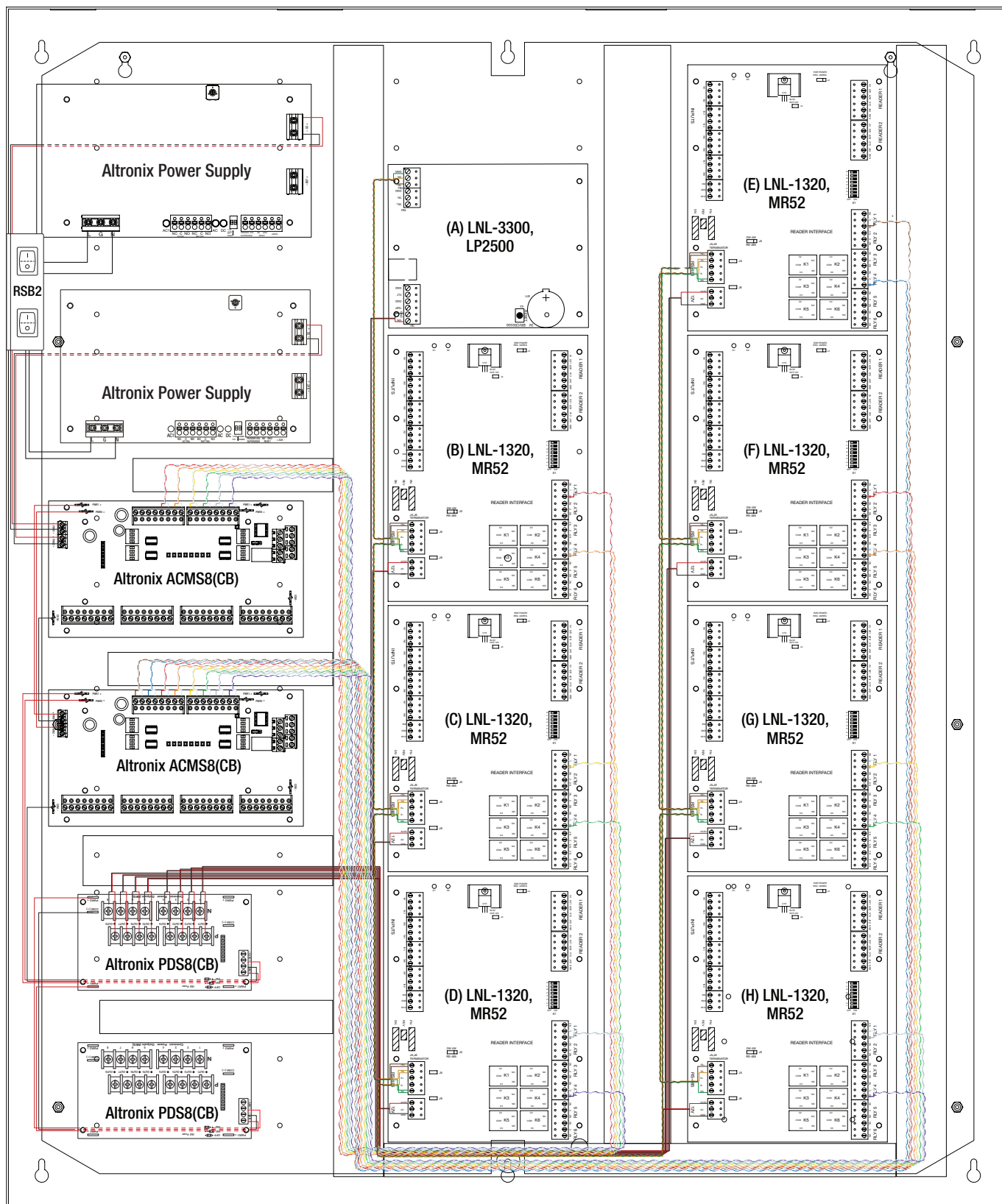
Product:	85.6 lb. (38.83 kg)
Shipping:	98.8 lb. (44.82 kg)

##### 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.): 263 BTU/Hr.



**Accessories** (order separately) —————



LINQ2

**LINQ2 - Network Supervision**

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

**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.



**TROVE3BWC / TROVE3SWC - Battery/Wire Trough Enclosure**

Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets. Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.

*Typical battery/wiring setup with Trove3 Enclosure (not included)*

## Dimensions and Drawing

Dimensions (H x W x D approximate)

36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

