

## T3M77XK2DV (Pre-wired Kit)

### Access and Power Integration Solution for Mercury



Altronix T3M77XK2DV 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 T3M77XK2DV 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



T3M77XK2DV - includes  
(2) eFlow104NBV, (2) ACMS8CB, (2) VR6,  
(2) PDS8CB, wire harnesses and finger duct

*Mercury boards are not included*

### Key Features

- Accommodates the following Mercury controllers:
  - 1 - LP2500 and 7 - MR52
- Convenient knockout configuration:
  - One (1) single knockout 2.415" (2" Conduit)
  - Two (2) double knockouts 1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
  - Thirteen (13) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Unit includes:
  - Removable backplane
  - 2" high finger duct for wire management
  - Custom wire assemblies for power distribution with terminal blocks for controller connections
- Supervision
  - AC Fail
  - Low Battery 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
- CE European Conformity
- Lifetime Warranty\*

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

## Specifications

### Two (2) Power Supplies (eFlow104NBV):

#### Input

Voltage 220VAC (working range 198VAC - 256VAC),  
50/60Hz, 5.4A

Input Fuse 6.3A/250V

#### Output

Voltage 24VDC @ 10A

Auxiliary 1A (unswitched)

Protection Overvoltage protection. Filtered and regulated

### 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

70-75% for 24V units (depending on the power supply)

Prevents deep battery discharge

### Indicators (LED)

AC Input 220VAC is present

DC Output 24VDC is present

Battery Discharged or not connected

### Two (2) Dual Input Access Power Controllers (ACMS8CB):

#### Input

Voltage 24VDC from eFlow104NBV and  
12VDC from VR6

Input PTCs 9A

#### Outputs

Voltage 12 or 24VDC individually selectable

Eight (8) selectable 12VDC - 24VDC independently controlled  
outputs or eight (8) indepently 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) PTC protected power outputs are selectable

to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing

Output PTCs 2.5A

### Indicators (LED)

Red LEDs Outputs are triggered (relays energized)

Blue LED FACP disconnect is triggered

### Individual voltage LEDs:

Green: 12VDC

Red: 24VDC

### Two (2) Voltage Regulators (VR6):

#### Input

Voltage 24VDC from eFlow104NBV

#### Output

Voltage 12VDC

Current 6A continuous

Other Surge suppression

### Indicators (LED)

Input 24VDC is present

Output Powered

### Two (2) Dual Input Power Distribution Modules (PDS8CB):

#### Input

Voltage 24VDC from eFlow104NBV and  
12VDC from VR6

Input PTCs 9A

#### 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 PTCs 2.5A

### Indicators (LED)

DC Output Eight (8) individual output LEDs

Green: 12VDC

Red: 24VDC

### T3M77XK2DV Kit:

#### Agency Listings

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)

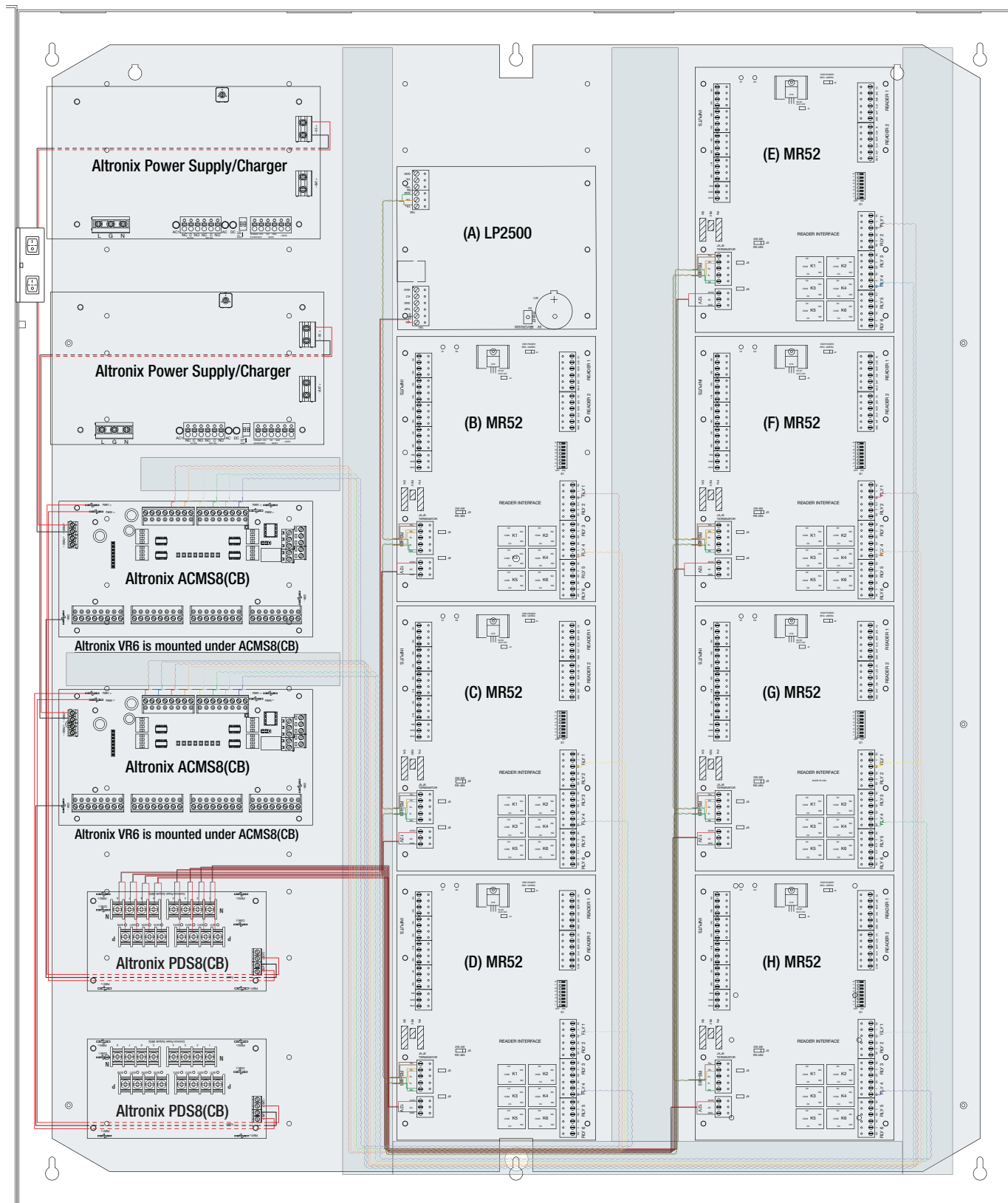
Storage - 20°C to 70°C (- 4°F to 158°F)

#### Relative Humidity

85% +/- 5%

#### BTU/Hr. (approx.):

289 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)

