

## T2M7XK3DV (Pre-wired Kit)

Access and Power Integration Solution for Mercury



Altronix T2M7XK3DV is a 8-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 T2M7XK3DV accommodates four (4) Dual Reader Interface Modules. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.



T2M7XK3DV - includes  
eFlow104NBV, ACMS8CB, VR6, PDS8CB,  
wire harnesses and finger duct

**\*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 i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt



*Mercury boards are not included*

### Key Features

- Accommodates the following Mercury controllers:
  - 4 - MR52
- Convenient knockout configuration:
  - One (1) single knockout - 2" Conduit
  - Sixteen (16) double knockouts - 1/2" Conduit and 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
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
  - Low power shutdown
- CE European Conformity
- Enclosure accommodates up to four (4) 12VDC/7AH batteries
- Lifetime Warranty\*

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

## Specifications

### Power Supply (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

### Battery Charging

Capacity 12VDC/7AH (2 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

### Dual Input Access Power Controller (ACMS8CB):

#### Input

Voltage 24VDC from eFlow104NBV and  
12VDC from VR6

Input PTCs 9A

#### 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

### Voltage Regulator (VR6):

#### Input

Voltage 24VDC from eFlow104NBV

#### 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 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

### T2M7XK3DV Kit:

#### Agency Listings

CE European Conformity

### 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: 41.6 lb. (18.87 kg)

Shipping: 45.6 lb. (20.68 kg)

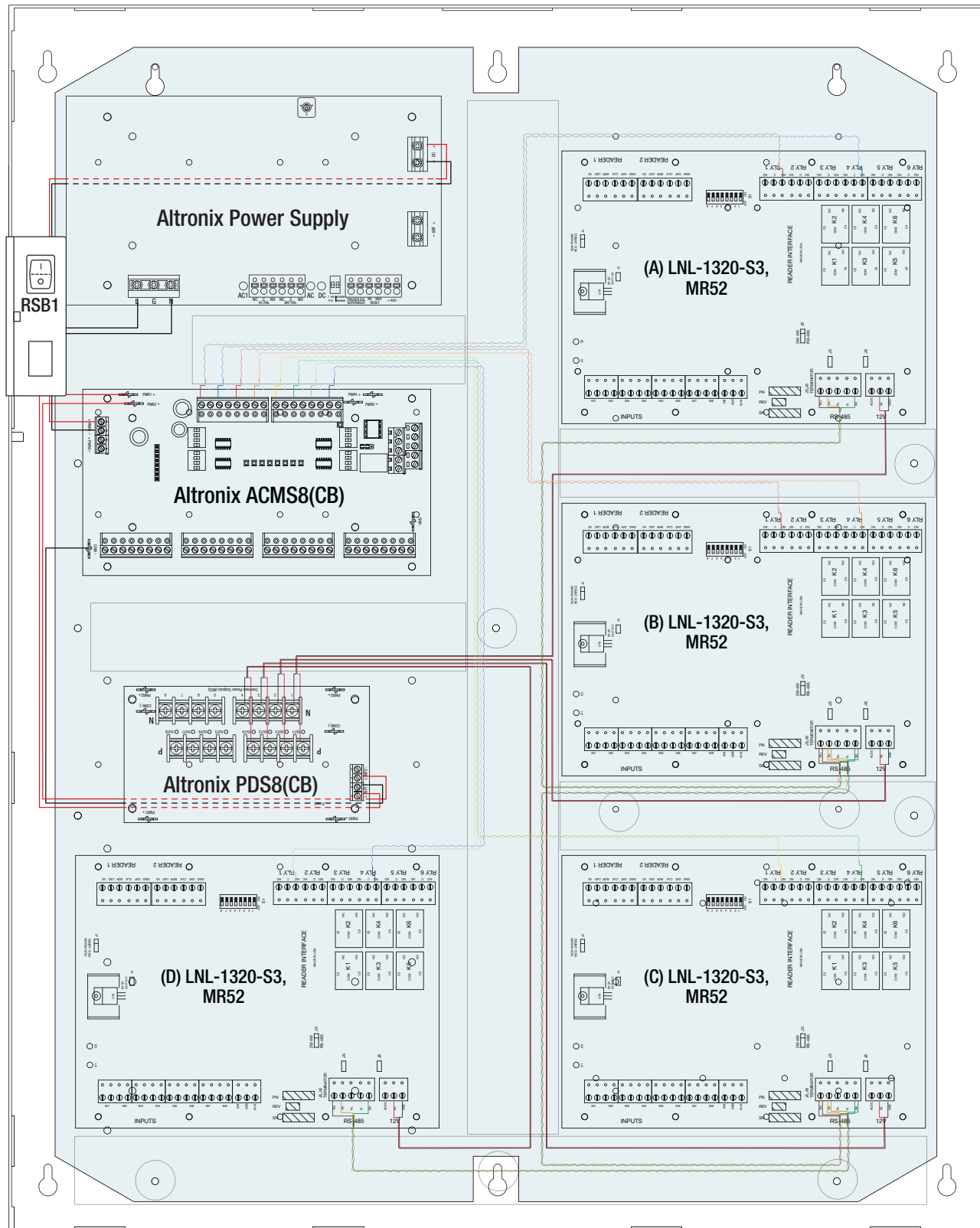
#### Temperature

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.): 145 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.

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)

