

## T2M5CK1AQV (Pre-wired Kit)

Access and Power Integration Solution for Mercury



Altronix T2M5CK1AQV 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 T2M5CK1AQV accommodates one (1) Intelligent Dual Reader Controller and three (3) 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, 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



T2M5CK1AQV - includes  
eFlow102NBV, LINQ8ACM8, PDS16,  
wire harnesses and management



*Mercury boards are not included*

### Key Features

- Accommodates the following Mercury controllers:
  - 1 - LP1502 / LP4502 and 3 - 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
  - Wire management
  - Custom wire assemblies for power distribution with terminal blocks for controller connections
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
  - Low power shutdown
- 16 gauge 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

### Power Supply (eFlow102NBV):

#### Input

Voltage 220VAC (working range 198VAC - 256VAC),  
50/60Hz, 2.1A

Input Fuse 5A/250V

#### Output

Voltage 12VDC @ 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 12VDC is present

Battery Discharged or not connected

### Dual Input Power Distribution Module (PDS16):

#### Input

Voltage 12VDC from eFlow102NBV

Input Fuses 15A/32V

#### Outputs

Voltage 12VDC

Any of the sixteen (16) 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

### Network Access Power Controller (LINQ8ACM):

#### Input

Voltage 12VDC from eFlow102NBV

Input Fuses 15A/32V

#### Outputs

Fuse protected outputs

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

### Programming Features:

#### Eight (8) Programmable Outputs:

- Fail-safe, fail-secure or auxiliary outputs
- Input controlled or manually controlled through software
- High (over) and low (under) voltage and current monitoring by output
- Multiple outputs may be programmed to be triggered by a single input
- Battery back-up by output

#### Eight (8) Programmable Trigger Inputs:

- Normally open (NO), Normally closed (NC) or Open collector sink inputs
- Wet Input (5VDC - 24VDC) with 10k resistor
- Any combination of the above

#### Other Programmable Trigger Inputs:

- Monitor power supply(ies) input for voltage and current limits (high/low)
- Input and output current calibration, Programmable timer events
- Programmable user levels, Enable or disable alerts by type
- Programmable alert reporting delay

### Indicators (LED)

**Green AC LED:** indicates AC trouble condition

**Green BAT LED:** indicates battery trouble condition

**Green FACP LED:** indicates FACP disconnect is triggered

**Flashing Blue Heartbeat LED:** indicates network connection

**Individual OUT1 - OUT8 Red LEDs:** indicate outputs are triggered

**Individual Voltage LEDs:** indicate 12VDC (Green) or 24VDC (Red)

### T2M5CK1AQV 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)

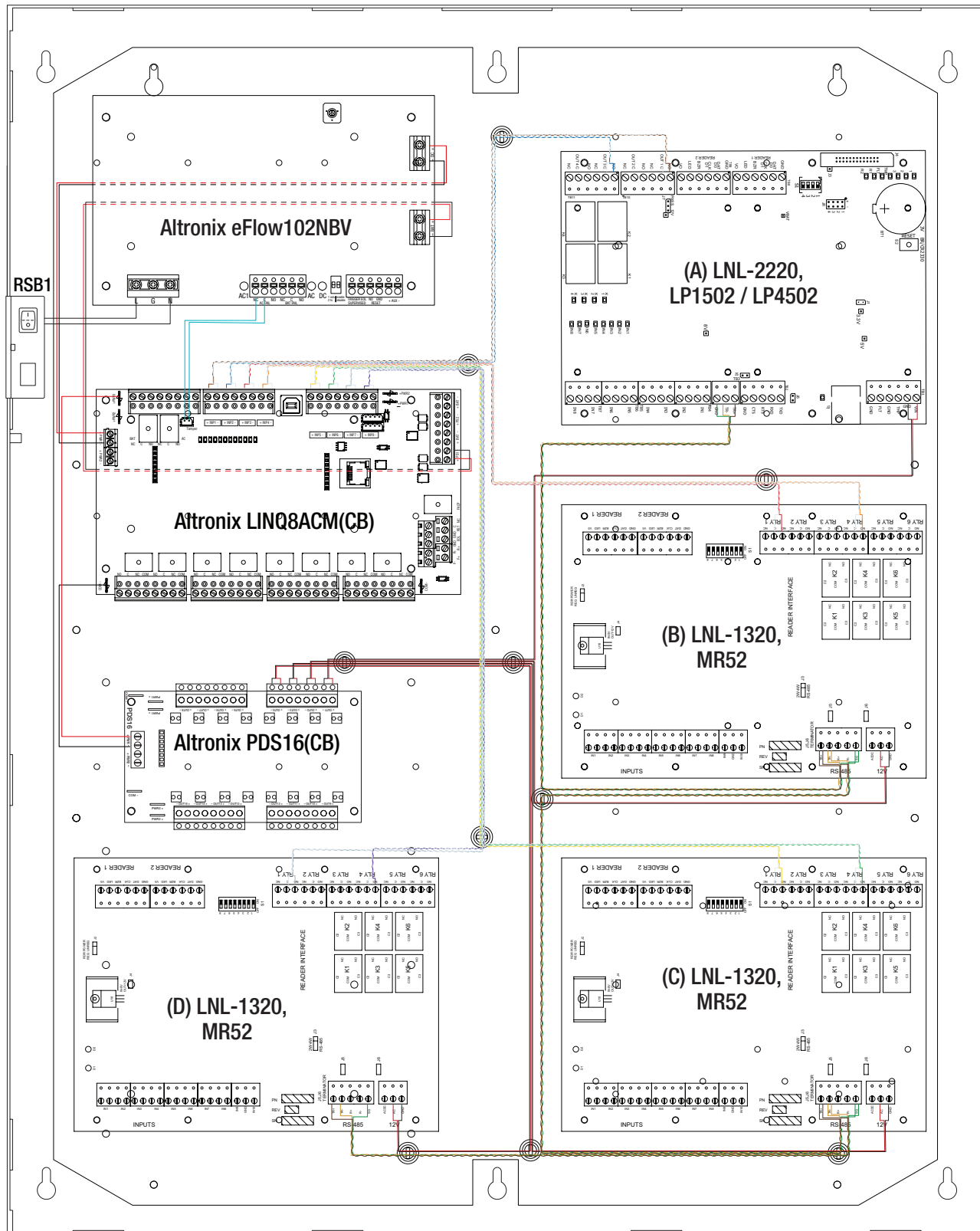
Storage - 20°C to 70°C (- 4°F to 158°F)

#### Relative Humidity

85% +/- 5%

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

64 BTU/Hr.



**Accessories** (order separately) \_\_\_\_\_



WM5

**WM5, WM25, WM100 - Magnetic Cable Tie Mounts**

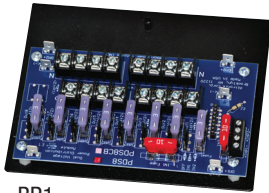
Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps. These are ideal for wire management in our Trove series.



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.



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)

