

T2M35XK1 (Pre-wired Kit)

Access and Power Integration Solution for Mercury



Altronix T2M35XK1 is an 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 T2M35XK1 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, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt



T2M35XK1 - includes eFlow6NB, eFlow102NB, (2) ACM8, wire harnesses and finger duct

Mercury modules are sold separately

Key Features

- Accommodates the following Mercury controllers:
 - 1 - LP1502 / LP4502 and 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 backplanes
 - Wire management
 - Custom wire assemblies for power distribution with terminal blocks for controller connections
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Supervision
 - AC Fail
 - Battery Fail and Battery Presence
 - Low power shutdown
- 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
- Enclosure accommodates up to four (4) 12VDC/7AH batteries
- Lifetime Warranty*

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

Specifications

Power Supply/Charger 1 (eFlow6NB):

Input

| | |
|------------|--------------------|
| Voltage | 120VAC, 60Hz. 3.5A |
| Input Fuse | 5A/250V |

Output

| | |
|-----------|--|
| Voltage | 24VDC |
| Current | 6A continuous |
| Auxiliary | 1A (unswitched) |
| Other | 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/7AH (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) Access Power Controllers (ACM8):

Input

| | |
|------------|-----------------------|
| ACM8 1 | 24VDC from eFlow6NB |
| ACM8 2 | 12VDC from eFlow102NB |
| Input Fuse | 10A/250V |

Outputs

| | |
|--------|-------|
| ACM8 1 | 24VDC |
| ACM8 2 | 12VDC |

Each ACM8:

- Eight (8) independently controlled fused 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 Fuses | 3.5A/250V |
|--------------|-----------|

Indicators (LED)

| | |
|-----------|--|
| Red LEDs | Outputs are triggered (relays energized) |
| Green LED | FACP disconnect is triggered |

T2M35XK1 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.)

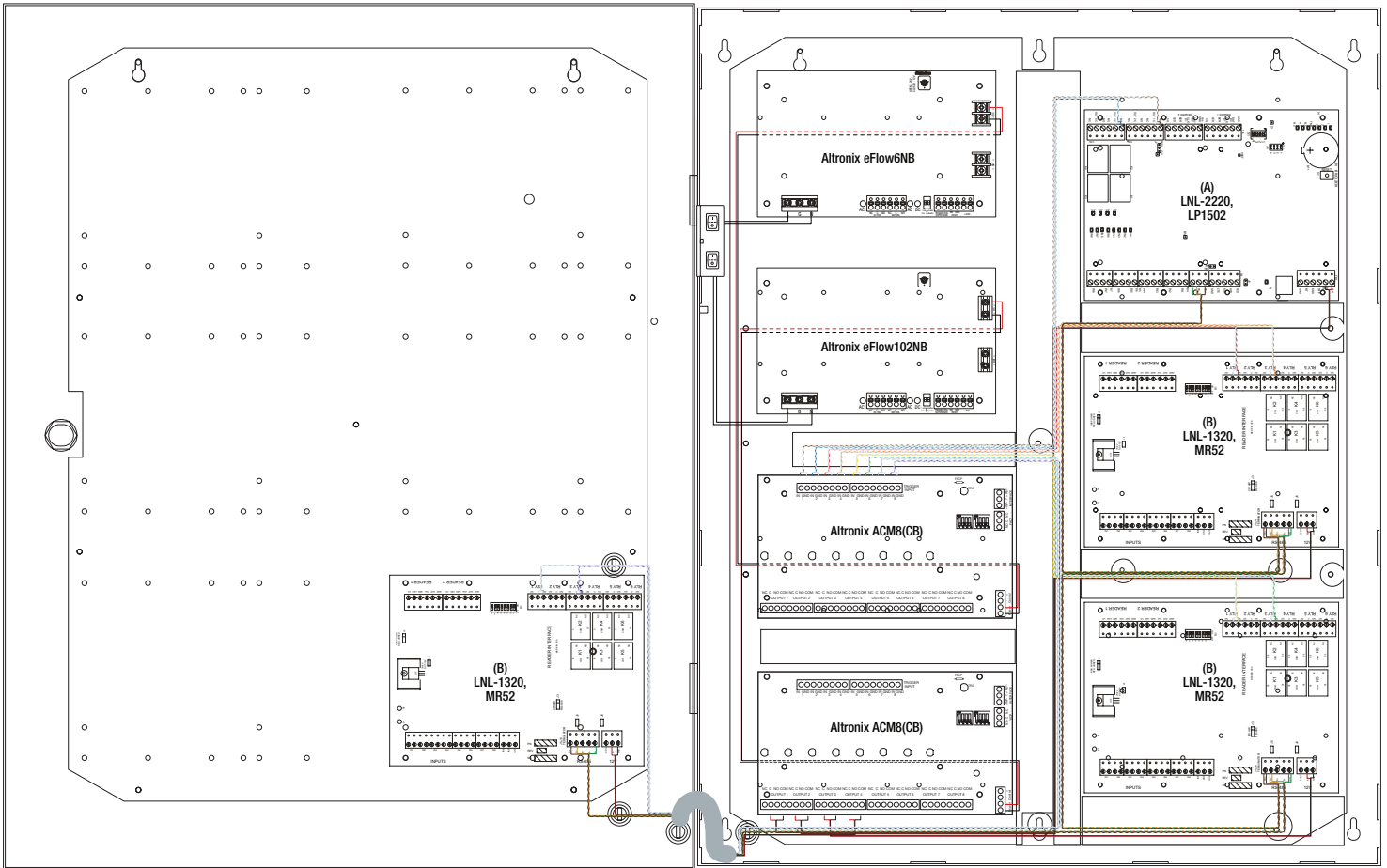
| | |
|----------|---------------------|
| Product | 49.8 lb. (22.59 kg) |
| Shipping | 53.6 lb. (24.29 kg) |

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.): | 136 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)

