

T2M7LCK1 (Pre-wired Kit)

Access and Power Integration Solution for Mercury



Altronix T2M7LCK1 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 T2M7LCK1 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, Identicon, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt



T2M7LCK1 - includes AL1024ULXB2, ACMS8, VR6, PDS8, wire harnesses and wire magnets

Mercury modules 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
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Supervision
 - AC Fail
 - Battery Fail and Battery Presence
- 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 (AL1024ULXB2):

Input

Voltage	115VAC 60Hz, 4.2A max
Input Fuse	5A/250V

Outputs

Voltage	24VDC
Current	10A @ 24VDC continuous max
Other	Overvoltage protection. Filtered and regulated

Battery Charging

Capacity	12AH/12VDC (4 within enclosure) 40AH/65AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Failover	Upon AC loss, instantaneous
Batteries are sold separately	

Supervision

AC Failure	Form "C" contacts
Battery	Form "C" contacts

Indicators (LED)

Input	115VAC is present
DC Output	Powered
Battery	Discharged or not connected

Dual Input Access Power Controller (ACMS8):

Input

Voltage	24VDC from AL1024ULXB2 and 12VDC from VR6
Input Fuses	15A/32V

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) 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

Voltage Regulator (VR6):

Input

Voltage	24VDC from AL1024ULXB2
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Output

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)

Input	24VDC is present
Output	Powered

Dual Input Power Distribution Module (PDS8):

Input

Voltage	24VDC from AL1024ULXB2 and 12VDC from VR6
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Input Fuses	10A/32V
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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

T2M7LCK1 Kit:

Agency Listings

CE	European Conformity
All components of this Trove kit are UL Listed sub-assemblies	
Please refer to the corresponding Sub-Assembly Installation Guides for further information	

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)

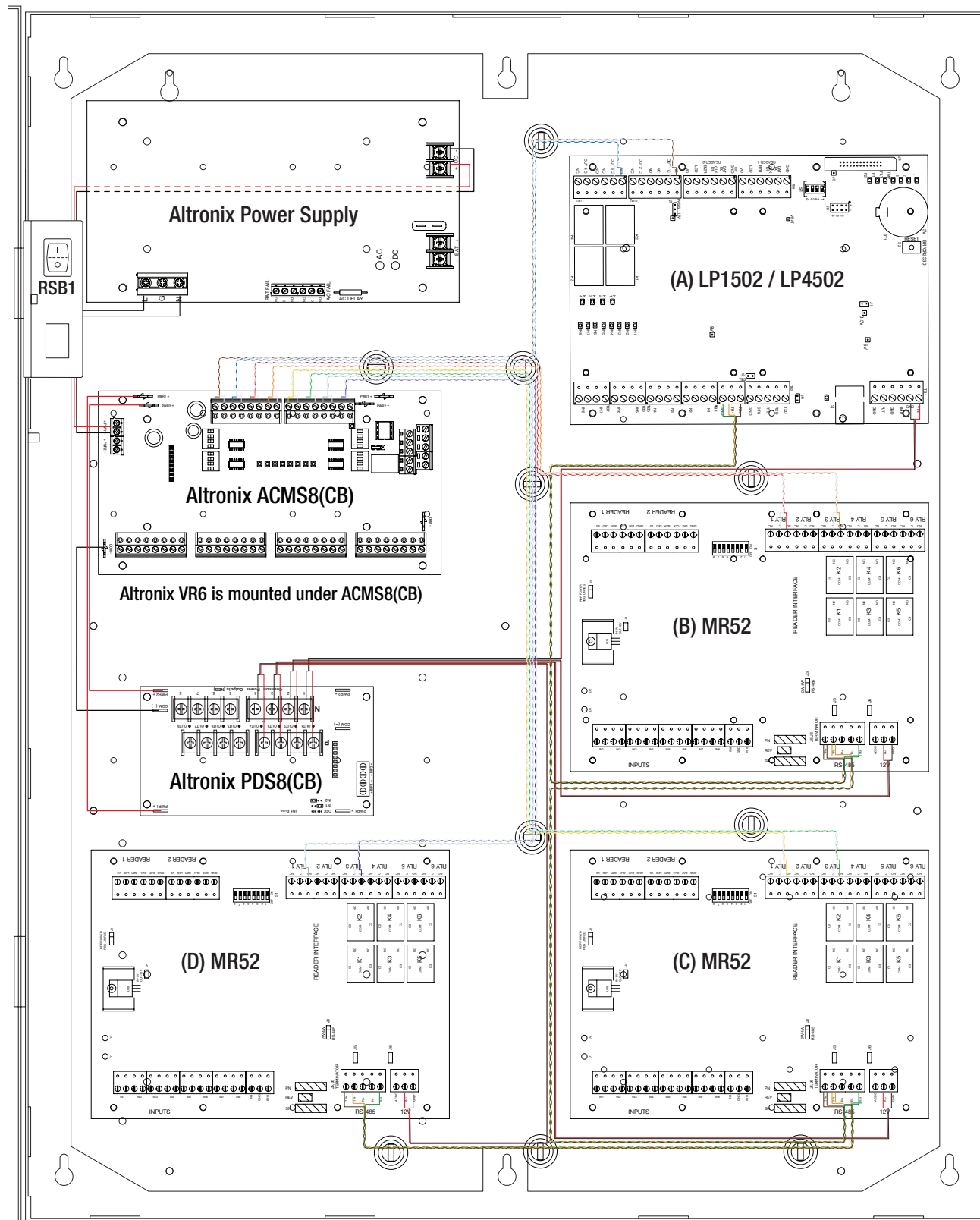
Temperature

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

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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)

