# Altronix®

## T2M7LCK2D (Pre-wired Kit)

## Access and Power Integration Solution for Mercury

**TROVE PLUS**

Altronix T2M7LCK2D is a 6-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 T2M7LCK2D accommodates one (1) Intelligent 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, Identicard, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt

**Mercury™**

T2M7LCK2D - includes AL1024ULXB2, ACMS8CB, VR6, PDS8CB, wire harnesses and wire magnets

*Mercury modules are not included*

## Key Features

- Accommodates the following Mercury controllers:
  1 - LP2500 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*

# T2M7LCK2D (Pre-wired Kit)
## Access and Power Integration Solution for Mercury

TROVE™ PLUS

## 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 (ACMS8CB):

**Input**

| | |
|---|---|
| Voltage | 24VDC from AL1024ULXB2 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 |

### Voltage Regulator (VR6):

**Input**

| | |
|---|---|
| Voltage | 24VDC from AL1024ULXB2 |

**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 AL1024ULXB2 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 | 3A/32V |

**Indicators (LED)**

| | |
|---|---|
| DC Output | Eight (8) individual output LEDs |
|   Green: | 12VDC |
|   Red: | 24VDC |

### T2M7LCK2D 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)
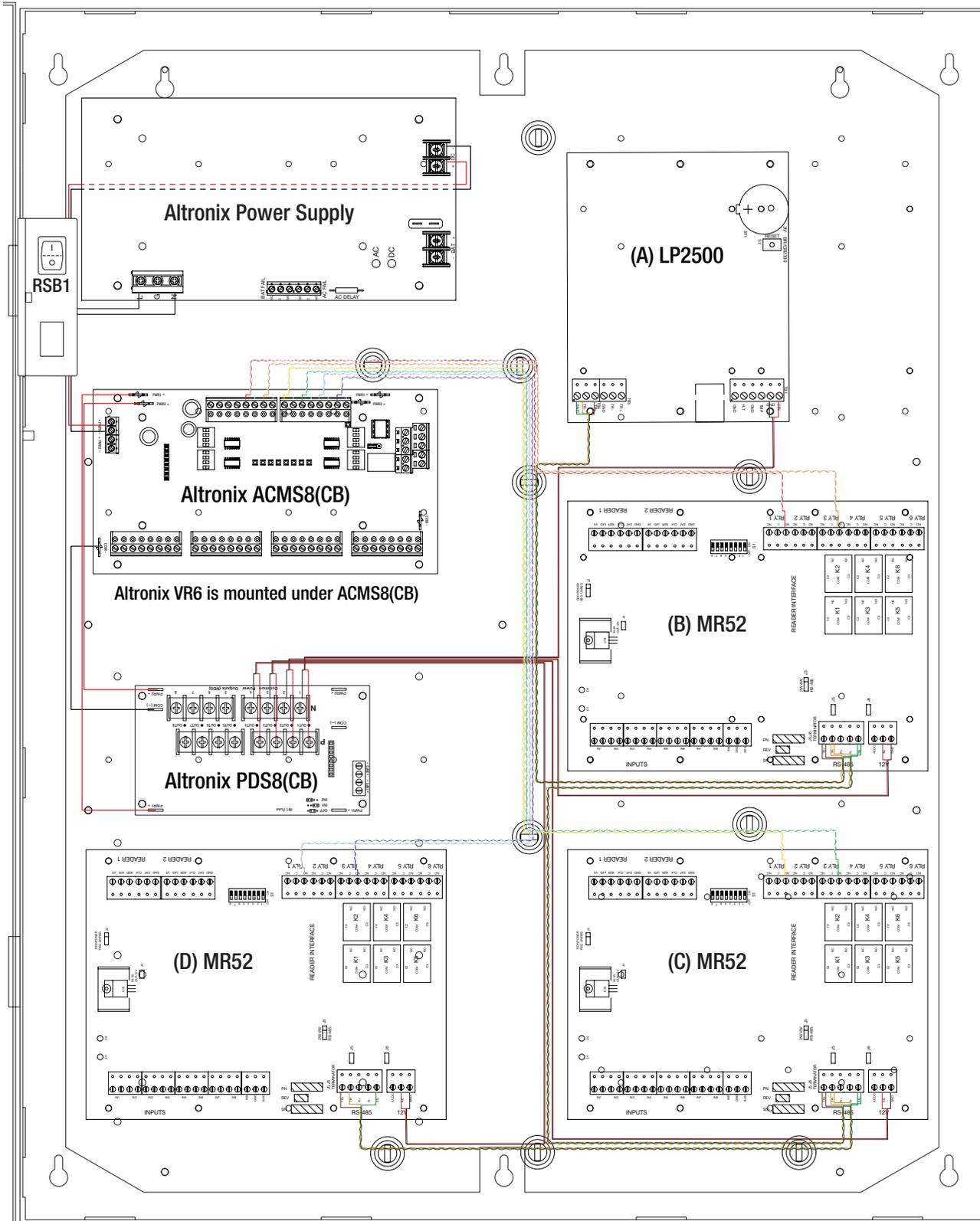
Weight (approx.)

| | |
|---|---|
|   Product: | 41.6 lb. (18.87 kg) |
|   Shipping: | 45.6 lb. (20.68 kg) |

Temperature

| | |
|---|---|
|   Operating | 0ºC to 49ºC (32ºF to 120ºF) |
|   Storage | − 20ºC to 70ºC (− 4ºF to 158ºF) |
| Relative Humidity | 85% +/− 5% |
| BTU/Hr. (approx.): | 145 BTU/Hr |

# Altronix®

## T2M7LCK2D (Pre-wired Kit)
## Access and Power Integration Solution for Mercury

**TROVE PLUS**

Altronix Power Supply

RSB1

AC   DC

BATT FAIL   AC DELAY

**(A) LP2500**

Altronix ACMS8(CB)

**Altronix VR6 is mounted under ACMS8(CB)**

READER 1   READER 2

RLY 2   RLY 3   RLY 4   RLY 5   RLY 6

READER INTERFACE

K2   K4   K6

**(B) MR52**

K1   K3   K5

Altronix PDS8(CB)

INPUTS

RS 485   12V

READER 1   READER 2

RLY 2   RLY 3   RLY 4   RLY 5   RLY 6

READER 1   READER 2

RLY 2   RLY 3   RLY 4   RLY 5   RLY 6

READER INTERFACE

READER INTERFACE

K2   K4   K6

K2   K4   K6

**(D) MR52**

**(C) MR52**

K1   K3   K5

K1   K3   K5

INPUTS

INPUTS

RS 485   12V

RS 485   12V

## Accessories (order separately)

### 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.

WM5

### 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.

Mounting Magnet

### 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.

BR1

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.

**T2M7LCK2D** (Pre-wired Kit)

Access and Power Integration Solution for Mercury

TR□VE™ PLUS

## 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)