Altronix®

T2M7XK3D (Pre-wired Kit)

Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix T2M7XK3D 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 T2M7XK3D 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.

*Also compatible with these authentic Mercury partners:
AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identicard, 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™

T2M7XK3D - includes
eFlow104NB, ACMS8CB, VR6, PDS8CB,
wire harnesses and finger duct

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

- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
  - Low power shutdown

- 16 AWG galvanized steel backplane simplifies board layout and wire management

- Enclosure accommodates up to four (4) 12VDC/7AH batteries
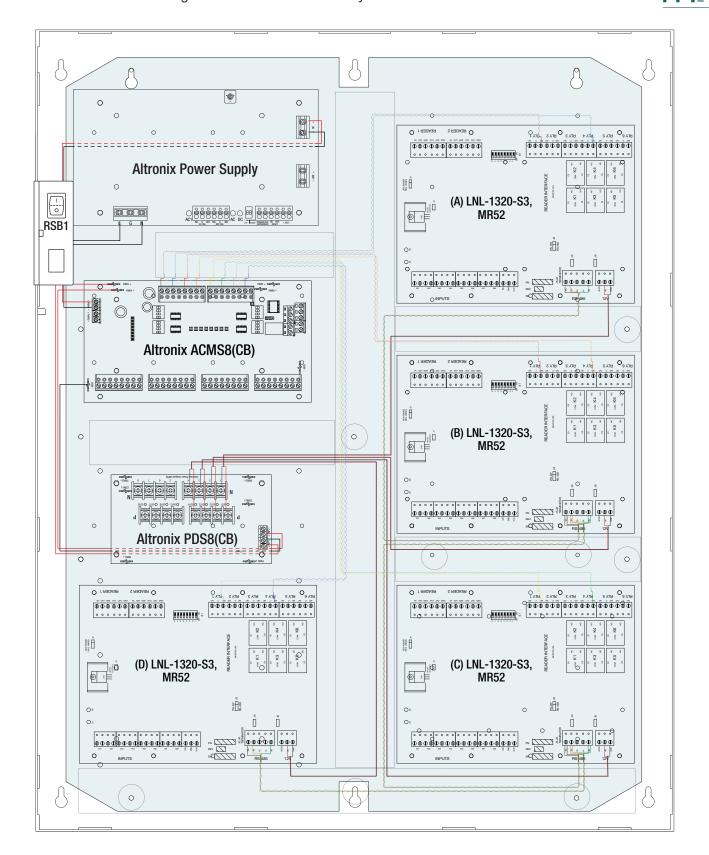
- CE European Conformity

- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

Altronix®

T2M7XK3D (Pre-wired Kit)
Access and Power Integration Solution for Mercury

TROVE PLUS

Specifications

Power Supply/Charger (eFlow104NB):

Input
Voltage	120VAC, 60Hz. 4.5A
Input Fuse	6.3A/250V

Output
Voltage	24VDC
Current	10A continuous
Auxiliary	1A (unswitched)
Other	Overvoltage protection. Filtered and regulated

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

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)
Input	120VAC is present
DC Output	Powered
Battery	Discharged or not connected

Dual Input Access Power Controller (ACMS8CB):

Input
Voltage	24VDC from eFlow104NB 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 eFlow104NB

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 eFlow104NB 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

T2M7XK2D 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®

T2M7XK3D (Pre-wired Kit)
Access and Power Integration Solution for Mercury

TROVE PLUS

Altronix Power Supply

RSB1

Altronix ACMS8(CB)

Altronix PDS8(CB)

(A) LNL-1320-S3, MR52

(B) LNL-1320-S3, MR52

(C) LNL-1320-S3, MR52

(D) LNL-1320-S3, MR52

READER 1 · READER 2 · READER INTERFACE · INPUTS · RS 485 · 12V

Accessories (order separately)

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

LINQ2

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.

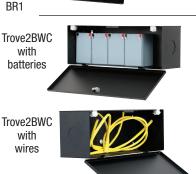WM5

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.
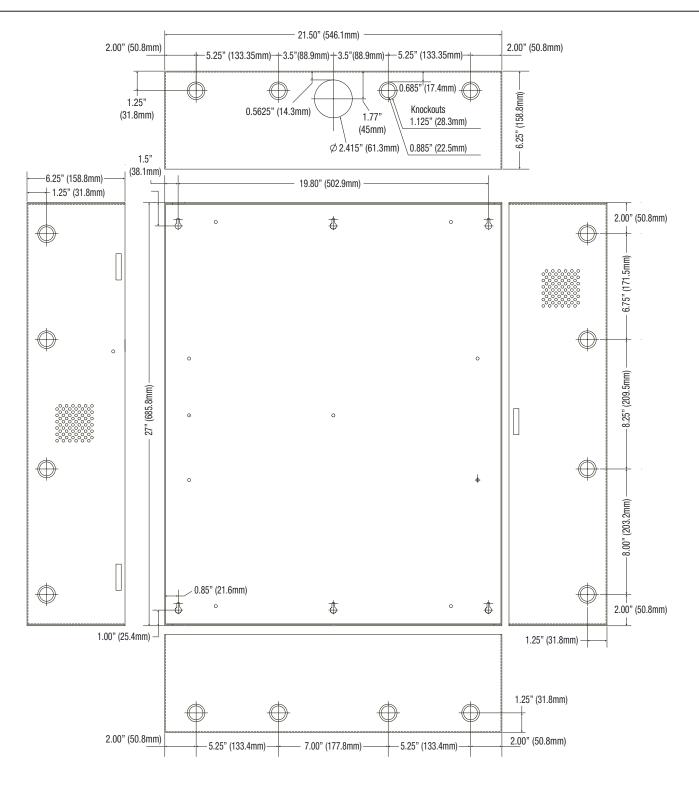
T2M7XK3D (Pre-wired Kit)

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)