



Altronix T3MB755K1D Power Integration Wired Kit Instruction Manual

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Altronix T3MB755K1D Power Integration Wired Kit



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Introduction

Altronix T3MB755K1D is a 24-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 T3MB755K1D accommodates one (1) Intelligent Dual Reader Controller and eleven (11) 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

Key Features

- **Accommodates the following Mercury controllers:**
 - 1 – LP1502 / LP4502 and 11 – MR52
- **Convenient knockout configuration:**
 - One (1) single knockout 2.415" (2" Conduit)
 - Two (2) double knockouts
 - 1.948" (1.5" Conduit) / 1.701" (1.25" Conduit)
 - Thirteen (13) double knockouts
 - 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- **Unit includes:**
 - Removable backplane with mounting brackets
 - Wire management
 - Custom Wire Harnesses for power distribution and controller connections
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- AC input and DC output LED indicators
- **Supervision**
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown
- Built-in charger for sealed lead acid or gel type batteries
- Instantaneous transfer to stand-by batteries
- CE European Conformity
- Enclosure accommodates up to four (4) 12VDC/12AH batteries

- Lifetime Warranty

*Altronix Power Supply/Chargers and Sub-Assemblies only

Specifications

Power Supply/Charger 1 (eFlow104NB):

- **Input**
 - **Voltage:** 120VAC, 60Hz, 4.5A
 - **Input Fuse:** 6.3A/250V
- **Output**
 - **Voltage:** 24VDC @ 10A.
 - **Auxiliary:** 1A (unswitched)
 - **Protection:** Overvoltage protection. Filtered and regulated

Power Supply/Chargers 2 and 3 (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:** Up to 40AH/65AH (requires separate enclosure)
 - **Type:** Sealed lead acid or gel type
 - **Fallover:** 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

Three (3) Dual Input Access Power Controllers (ACMS8CB):

- **Input**
 - **Voltage:** 24VDC from eFlow104NB and 12VDC from eFlow102NB
 - **Input PTCs:** 9A
- **Outputs**
 - **Voltage:** 24VDC
 - **Eight (8) 24VDC independently controlled PTC 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 PTCs:** 2.5A
- **Indicators (LED)**
 - **Red LEDs:** Outputs are triggered (relays energized)
 - **Green LED:** FACP disconnect is triggered

Three (3) Dual Input Power Distribution Modules (PDS8CB):

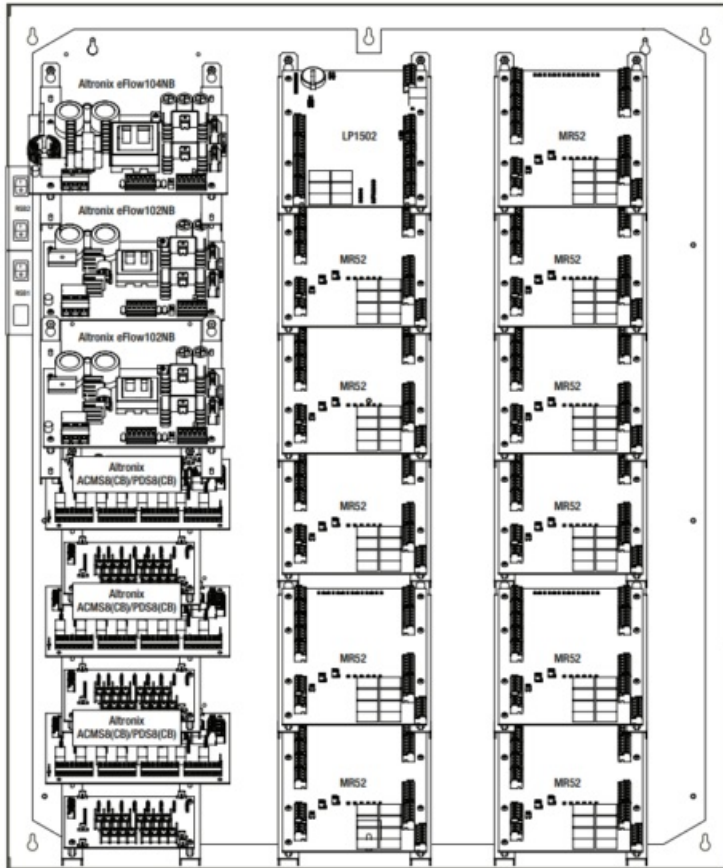
- **Input**
 - **Voltage:** 24VDC from eFlow104NB and 12VDC from eFlow102NB
 - **Input PTCs:** 9A
- **Outputs**
 - **Voltage:** 24VDC
 - Any of the eight (8) power outputs are selectable to follow power Input 1 or Input 2
 - Individual outputs may be set to OFF position for servicing
 - **Output PTCs:** 2.5A
- **Indicators (LED)**
 - **DC Output:** Eight (8) individual output LEDs
 - **Green:** 12VDC
 - **Red:** 24VDC

T3MB755K1D 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:**

36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)

- **Shipping:**
40.75" x 35.25" x 12" (1035.1mm x 895.4mm x 304.8mm)
- **Weight (approx.)**
 - **Product:** 85.6 lb. (42.27 kg)
 - **Shipping:** 106.4 lb. (48.26 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.):** 433 BTU/Hr



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

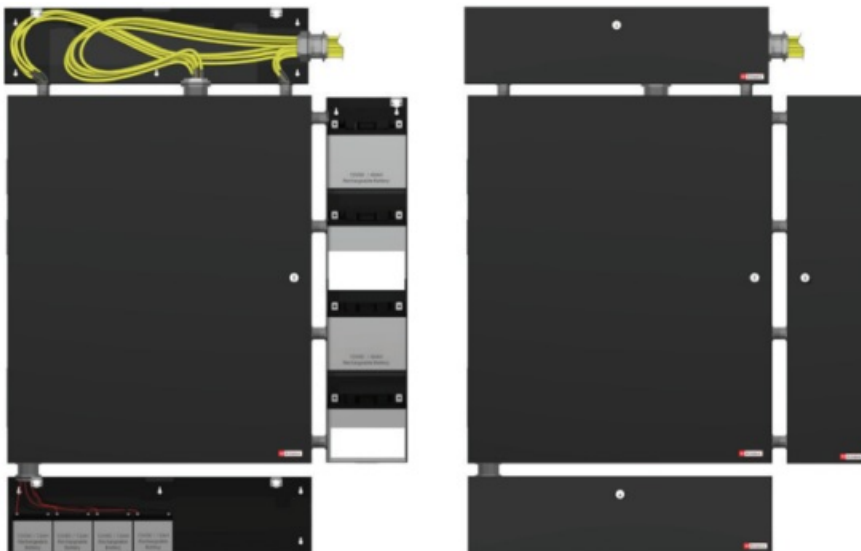
- Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.



TROVE3BWC / TROVE3SWC – Battery/Wire Trough Enclosure

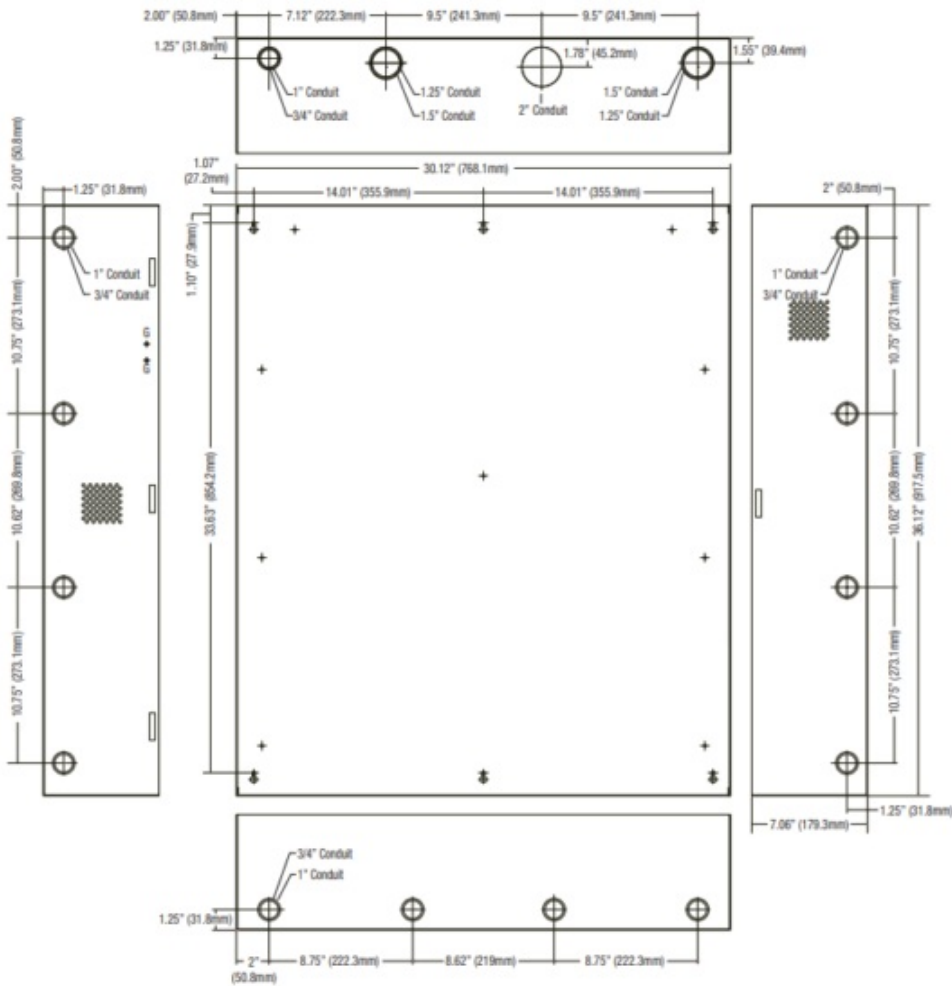
- Altronix Trove3BWC and Trove3SWC are dual-purpose enclosures that can be used as wiring troughs or battery cabinets when mounted above or below (Trove3BWC) or on either side (Trove3SWC) of the Trove integrated power and access solution. The knockouts on the Trove3BWC and Trove3SWC have been strategically placed to line up with the Trove3 allowing for easy conduit connections between cabinets. Trove3BWC and Trove3SWC include cam locks and 2 tamper switches each to ensure access to wiring and batteries is secure.

Typical battery/wiring setup with Trove3 Enclosure (not included)



Dimensions and Drawing

- Dimensions (H x W x D approximate)**
36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)



Customer Support

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Documents / Resources



Altronix T3MB755K1D Power Integration Wired Kit [pdf] Instruction Manual
 T3MB755K1D Power Integration Wired Kit, T3MB755K1D, Power Integration Wired Kit, Integrat
 ion Wired Kit, Wired Kit, Kit

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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