TROVE™ PLUS

Access & Power Integration

# Altronix/Mercury Wired Kits

## Models Include:

### T3MB777K1

24 Door Kit with Fused Outputs

Accommodates one (1) Intelligent Dual Reader Controller and eleven (11) Dual Reader Interface Modules.

Each fully assembled kit includes:

- Trove3 enclosure with TM3B Altronix/Mercury backplane and 36 BR3M mounting brackets.
- Three (3) eFlow104NB - Power Supply/Chargers
- Three (3) ACMS8 - Dual Input/Output Fuse Protected Access Power Controllers
- Three (3) PDS8 - Dual Input/Output Fuse Protected Power Distribution Modules
- Two (2) Rocker Switch Brackets with Three (3) Rocker Switches (Not evaluated by UL)
- Wire harnesses and management

### T3MB777K1D

24 Door Kit with PTC Outputs

Accommodates one (1) Intelligent Dual Reader Controller and eleven (11) Dual Reader Interface Modules.

Each fully assembled kit includes:

- Trove3 enclosure with TM3B Altronix/Mercury backplane and 36 BR3M mounting brackets.
- Three (3) eFlow104NB - Power Supply/Chargers
- Three (3) ACMS8CB - Dual Input/Output PTC Protected Access Power Controllers
- Three (3) PDS8CB - Dual Input/Output PTC Protected Power Distribution Modules
- Two (2) Rocker Switch Brackets with Three (3) Rocker Switches (Not evaluated by UL)
- Wire harnesses and management

All components of these Trove kits are UL Listed sub-assemblies.
Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

# Installation Guide

CE

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Rev. T3MB777K1_051823

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

## Overview:

Altronix Trove Plus kits are pre-wired, pre-assembled and consist of Trove3M3 enclosure/backplane with factory installed Altronix power supply/chargers and sub-assemblies, wire harnesses and finger duct.

## Configuration Chart:

| Altronix Model Number | 120VAC 60Hz Input Current (A) | Power Supply Board Input Fuse Rating | Power Supply Board Battery Fuse Rating | Nominal DC Output Voltage Range | | | Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8(CB) Access Power Controller's outputs | Fail-Safe/Fail-Secure or Dry Form "C" Outputs | Current Per ACMS8(CB) and PDS8(CB) Output (A) | ACMS8(CB) Board Input Fuse (PTC) Rating | ACMS8(CB) Board Output Fuse (PTC) Rating | PDS8(CB) Board Input Fuse (PTC) Rating | PDS8(CB) Board Output Fuse (PTC) Rating |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Power Supply 1 | Power Supply 2 | Power Supply 3 | | | | | | | |
| | | | | Output Range (VDC) | Output Range (VDC) | Output Range (VDC) | | | | | | | |
| T3MB777K1 | 13.5 | 6.3A/ 250V | 15A/ 32V | 20.17-26.4 | 20.17-26.4 | 20.17-26.4 | 24VDC @ 9.4A | 24 | 2.5 | 15A/ 32V | 3A/ 32V | 10A/ 32V | 3A/ 32V |
| T3MB777K1D | | | | | | | | | 2.0 | 9A | 2.5A | 9A | 2.5A |

## Hardware and Accessories:

- Two (2) tamper switches (Altronix Model TS112 or equivalent).
- Cam lock.
- Battery leads.

## Mechanical:

- 16 Gauge enclosure with ample knockouts for convenient access.
- Enclosure Dimensions (H x W x D): 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm).

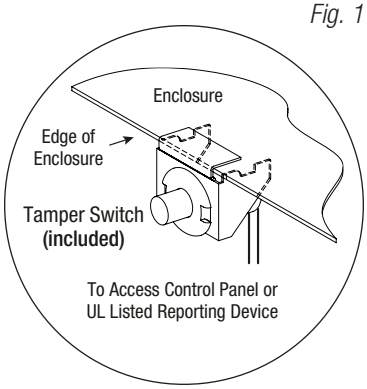
## Installation Instructions:

**Enclosure Mounting:**

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

1. Remove backplane from enclosure. Do not discard hardware.
2. Mark and predrill holes in the wall to line up with the top three keyholes in the enclosure. Install three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the three upper screws, level and secure. Mark the position of the lower three holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the three lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switches (Altronix Model TS112 or equivalent) in desired location, opposite hinge. Slide the tamper switch bracket onto the edge of the enclosure approximately 2" from the right side *(Fig. 1, pg. 2)*. Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the door of the enclosure.

*Fig. 1*




**Installing and Connecting Lenel/Mercury Modules:**

4. Altronix power supplies and sub-assemblies are factory installed and wired. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow104NB and corresponding *Sub-Assembly Installation Guides* for PDS8(CB) and ACMS8(CB) for further installation instructions.
5. Connect unswitched AC power (120VAC 60Hz) to RSB. Use 14 AWG or larger for all power connections. Secure green wire lead to earth ground. Green "AC" LED on power supply board will turn on. This light can be seen through the LED lens on the door of the enclosure.
   **Keep power-limited wiring separate from non power-limited wiring (120VAC 60Hz Input, Battery Wires). Minimum 0.25" spacing must be provided.**
   **CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing equipment. There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel.**
6. Measure voltage before connecting devices. This helps avoiding potential damage.
7. Position Lenel/Mercury access controller modules over corresponding spacers and depress onto factory installed snap on spacers on the brackets *(Fig. 2, pg. 3)*. When mounting Lenel/Mercury modules, start with the bottom to facilitate easy mounting.
8. Connect wire harnesses to Lenel/Mercury access controller modules *(Fig. 2, pg. 3)*.
9. Mount backplane to enclosure with hardware.

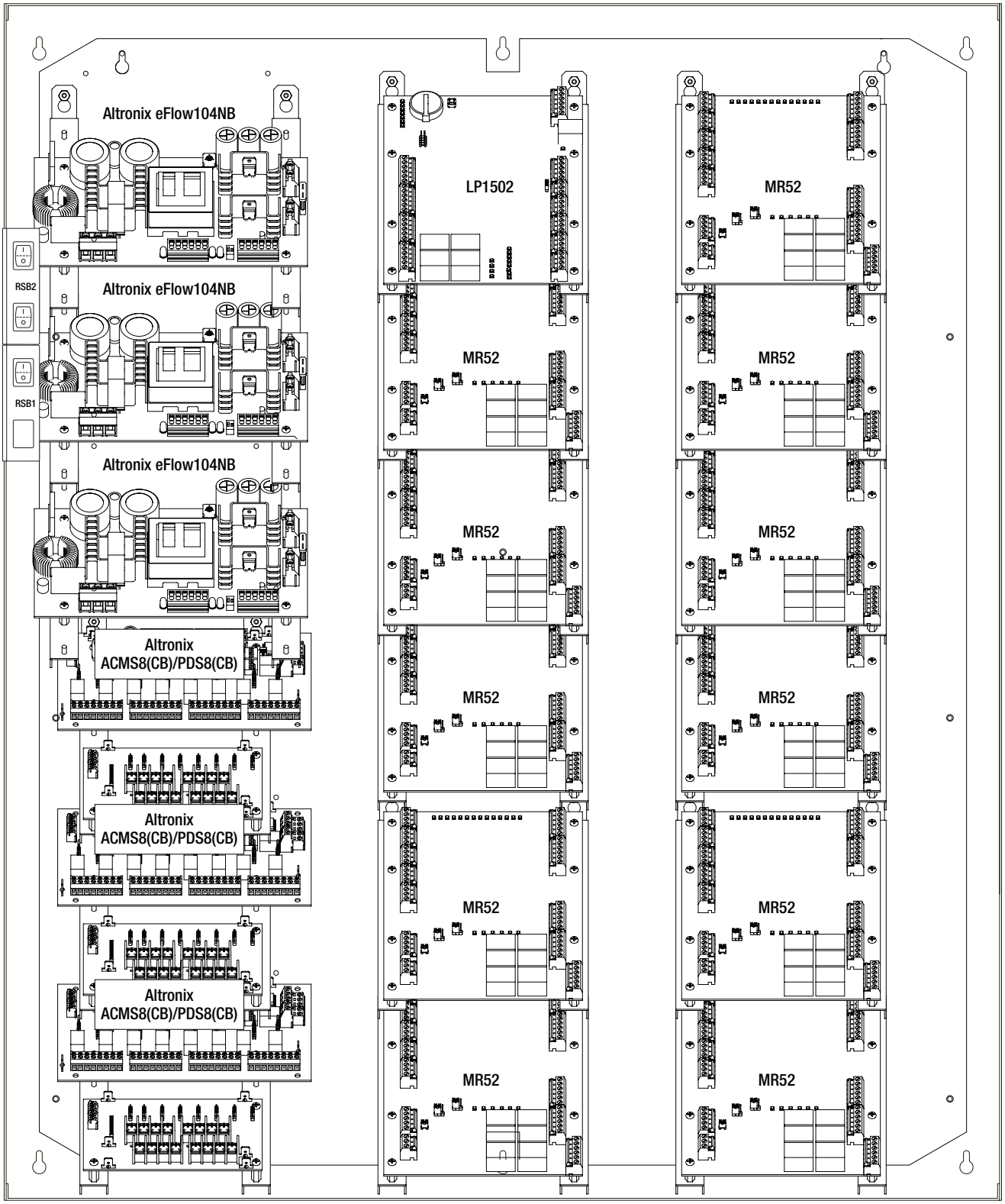
## T3MB777K1(D) Configuration:

1. Position access controller module over corresponding spacers and depress onto snap on spacers *(Fig. 2, pg. 3)*.
2. Mount backplane to enclosure with hardware.

## Access Controller Position Chart for the Following Models:

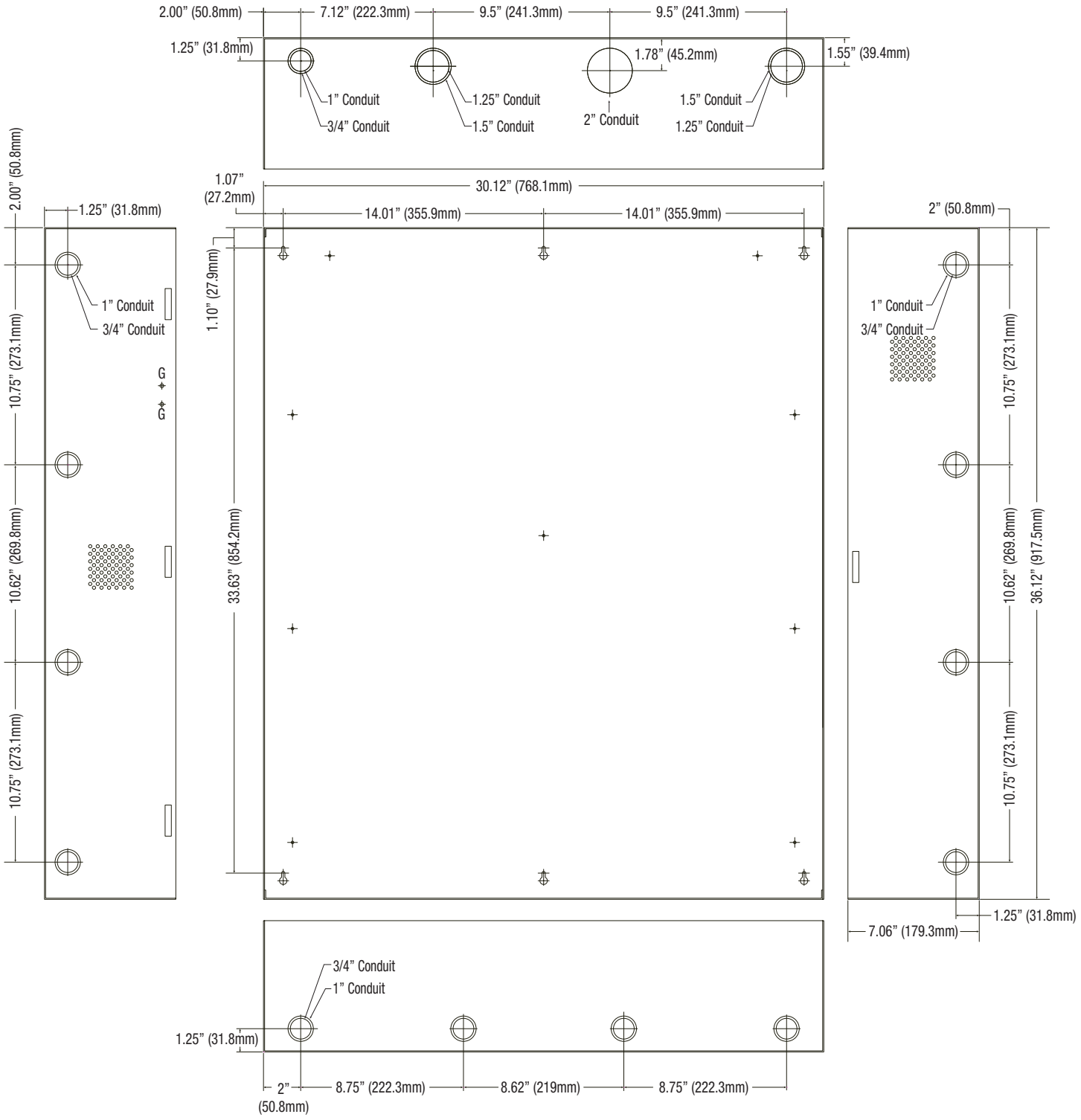
| LenelS2 / Mercury Access Controller | Pem Mounting |
|---|---|
| LNL-2220 / LP1502 | (E) |
| LNL-1320-S3 / MR52 | (A)(B)(C)(D)(F)(G)(H) |

*Fig. 2*



## **Trove3 Enclosure Dimensions** (H x W x D approximate)**:**

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

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