# TROVE™
## Access & Power Integration

# Altronix/Mercury Kits

## Models Include:

### T1MK1FPA4
**4 Door Kit with Fused Outputs**

Fully assembled kit includes:
- Trove1 enclosure with TM1 Altronix/Mercury backplane
- One (1) eFlow4NB - Power Supply/Charger
- One (1) ACM4 - Fused Access Power Controller
- One (1) PD4UL - Fused Power Distribution Module

### T1MK1FPA4D
**4 Door Kit with PTC Outputs**

Fully assembled kit includes:
- Trove1 enclosure with TM1 Altronix/Mercury backplane
- One (1) eFlow4NB - Power Supply/Charger
- One (1) ACM4CB - PTC Access Power Controller
- One (1) PD4ULCB - PTCPower Distribution Module

Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

# Installation Guide

CE

**Altronix®**
**More than just power.™**

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

## Overview:

Altronix Mercury kits are pre-assembled and consist of Trove1M1 enclosure/backplane with factory installed Altronix power supplies and sub-assemblies. These kits also accommodate various combinations of Mercury boards for up to four (4) doors in a single enclosure.
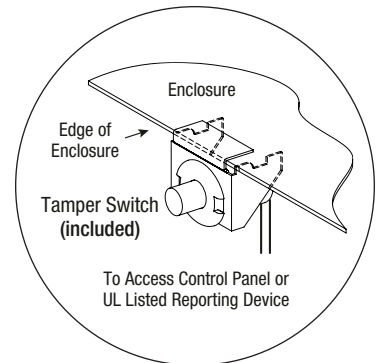
## Configuration Chart:

| Altronix Model Number | 120VAC 60Hz Input Current (A) | Power Supply Board Input Fuse Rating | Power Supply Board Battery Fuse Rating | Nominal DC Output Voltage [DC] 24VDC Output Range (V) | [Aux] 24VDC Output Range (V) | Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4(CB) Access Power Controller's outputs (A) | Fail-Safe/ Fail-Secure Outputs | Current Per ACM4(CB) Output (A) | ACM4(CB) Board Input Fuse (PTC) Rating | ACM4(CB) Board Output Fuse (PTC) Rating | PD4UL(CB) Board Output Fuse (PTC) Rating |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T1MK1FPA4 | 3.5 | 5A/ 250V | 7.5A/ 32V | 20.28- 26.4 | 20.28- 26.4 | 24VDC @ 3.6A | 4 | 2.5 | 10A/ 32V | 3A/ 32V | 3.5A/ 250V |
| T1MK1FPA4D | 3.5 | 5A/ 250V | 7.5A/ 32V | 20.28- 26.4 | 20.28- 26.4 | 24VDC @ 3.6A | 4 | 2.0 | 9A | 2.5A | 2.5A |

## Installation Instructions:

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 two (2) keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws; level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the two lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switch (Altronix Model T112 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.
4. Position Mercury access controller modules over corresponding spacers and depress onto snap on spacers, *Fig. 2, pg. 3*
5. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow4NB, and corresponding Sub-Assembly Installation Guide for ACM4(CB) and PD4UL(CB) for further installation instructions.
6. Mount backplane to enclosure with hardware.

*Fig. 1*



Enclosure

Edge of Enclosure

Tamper Switch **(included)**

To Access Control Panel or UL Listed Reporting Device

## Hardware:

Snap On Spacer | 5/16" Pan Head Screw | Lock Nut

# T1MK1FPA4(D): Configuration of Mercury Boards:

1. Fasten snap on spacers onto metal pems configuration (A), (B), (C) or (D) of backplane depending on the access controller *(Fig. 2, pg. 3)*.
2. Position access controller module over corresponding spacers and depress onto snap on spacers *(Fig. 2a, pg. 3)*.
3. Mount backplane to enclosure with hardware.

## Access Controller Position Chart for the Following Models:

| Mercury Access Controller | Pem Mounting |
|---|:---:|
| EP1502, LP1502, MR52, MR16IN, MR16OUT | Ⓐ |
| EP1501, LP1501, MR51e, MR62e | Ⓑ |
| MR50 | Ⓒ |
| EP2500, LP2500, MUX8 | Ⓓ |
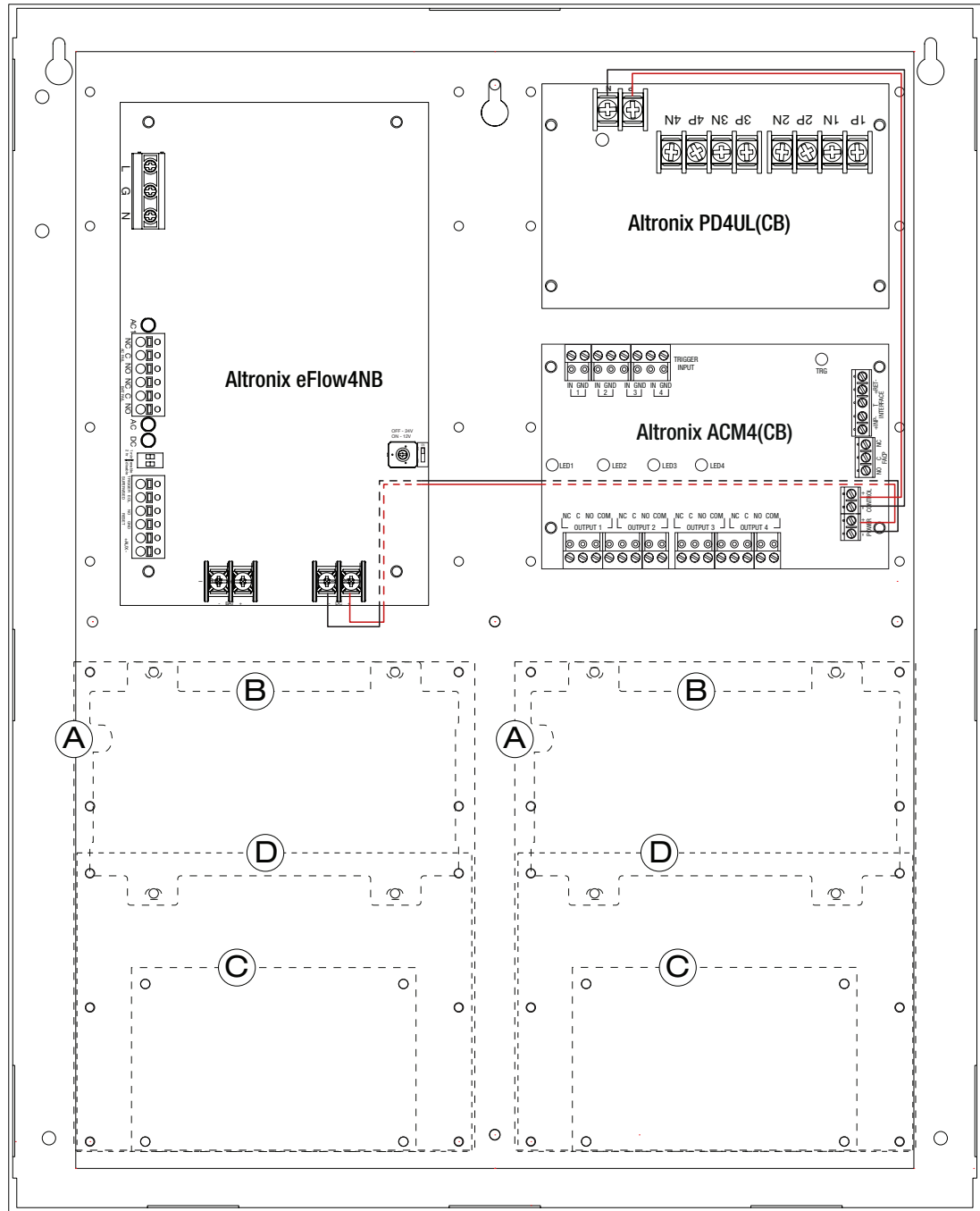
*Fig. 2*



*Fig. 2a*
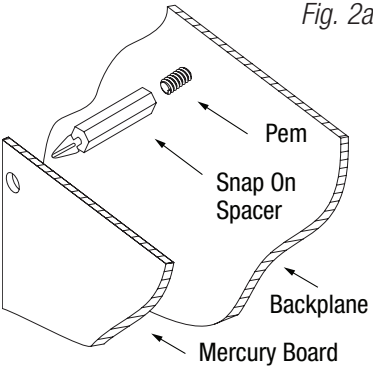
# Trove1 Enclosure Dimensions (H x W x D approximate):
## 18" x 14.5" x 4.625" (457mm x 368mm x 118mm)

14.5" (321.3mm)

7.25" (184.2mm)

1.45" (36.8mm)  ⌀1.95" (49.5mm)

4.5" (114.3mm)

1.25" (31.8mm)

1.5" (38.1mm)

0.57" (14.5mm)

8.5" (215.9mm)

6.5" (165.1mm)

13.0" (330.2mm)

0.6" (15.2mm)

18.0" (457.2mm)

0.6" (15.2mm)

1.1" (27.9mm)

1.25" (31.8mm)

1.5" (38.1mm)

8.5" (215.9mm)

6.5" (165.1mm)

4.5" (114.3mm)   4.5" (114.3mm)   2.75" (69.9mm)

⌀1.115" (28.3mm)

1.36" (34.5mm)

1.25" (31.8mm)

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