

# TRIVE™

Access & Power Integration

## T3MK55F16DV

### 16 Door Altronix/Mercury Kit with PTC Outputs

Fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury backplane
- Two (2) eFlow102NBV - Power Supply/Chargers
- Two (2) ACM8CB - PTC Protected Access Power Controllers
- Two (2) PD8ULCB - PTC Protected Power Distribution Modules
- One (1) RSB2 - Rocker Switch Bracket with two (2) Rocker Switches

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

## Installation Guide



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Rev. 081522

Installing Company: \_\_\_\_\_ Service Rep. Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone #: \_\_\_\_\_



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## Overview:

Altronix T3MK55F16DV Trove Mercury kit is pre-assembled and consists of Trove3M3 enclosure with factory installed Altronix power supply/chargers and sub-assemblies. T3MK55F16DV kit also accommodates various combinations of Mercury boards for up to sixteen (16) doors in a single enclosure.

## Configuration Chart:

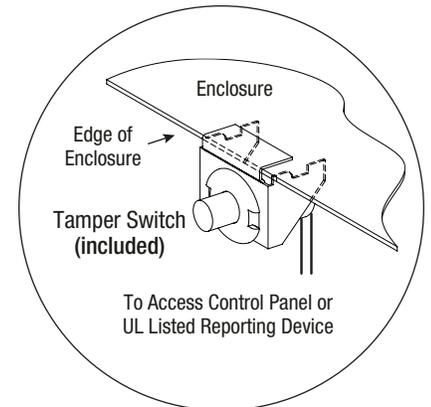
Altronix Model Number	220VAC 50/60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM8CB Access Power Controller's outputs	Fail-Safe/Fail-Secure Outputs	Current Per ACM8CB Output (A)	ACM8CB Board Input Fuse Rating	ACM8CB Board Output PTC Rating	PD8ULCB Board Output Fuse Rating
				Power Supply 1		Power Supply 2							
				[DC]	[Aux]	[DC]	[Aux]						
T3MK55F16DV	4.2	5A/250V	15A/32V	Output Range (VDC) 9.7-13.2	Output Range (VDC) 10.03-13.2	Output Range (VDC) 9.7-13.2	Output Range (VDC) 10.03-13.2	12VDC @ 9.2A	16	2.5	10A/250V	2A	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.

- Remove backplane from enclosure. Do not discard hardware.
- Mark and predrill holes in the wall to line up with the top two/three keyholes in the enclosure. Install two/three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two/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 two/three upper screws. Install the three lower screws and make sure to tighten all screws.
- Mount included UL Listed tamper switch (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.
- Connect unswitched AC power (220VAC 60Hz) to terminals marked [L, N].  
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 (220VAC 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.**
- Measure voltage before connecting devices. This helps avoiding potential damage.
- Mount Mercury modules to backplane(s), refer to *page 3*.
- Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow102NBV and corresponding *Sub-Assembly Installation Guides* for ACM8CB and PD8ULCB for further installation instructions.

Fig. 1



## Hardware:

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

## T3MK55F16DV: Configuration of Mercury Boards:

1. Fasten snap on spacers onto metal pems configuration (A) (B) 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, MR52, MR16IN, MR16OUT	(A)
EP2500, MUX8	(B)
EP1501, MR51e	(C)
MR52	(D)

Fig. 2

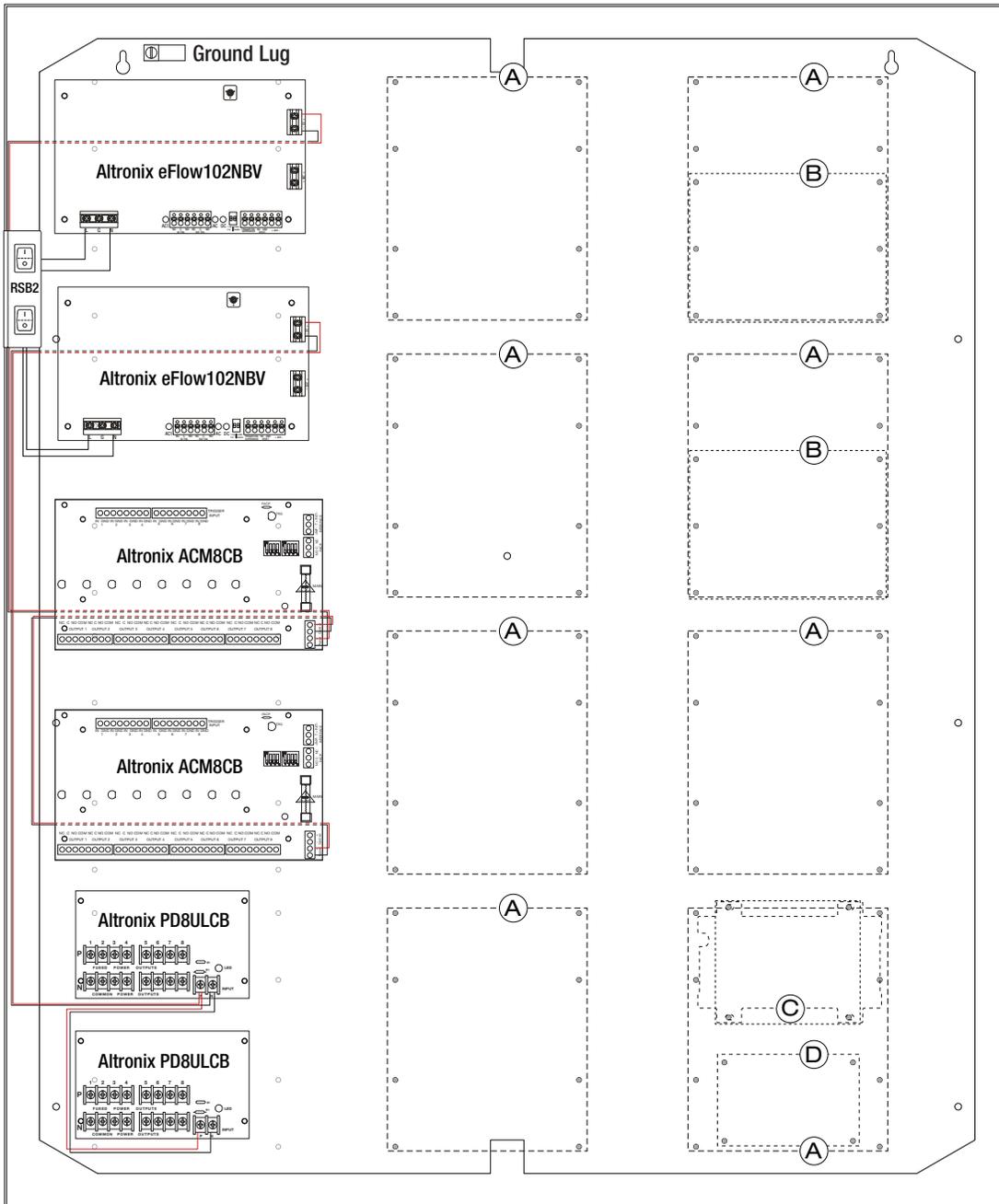
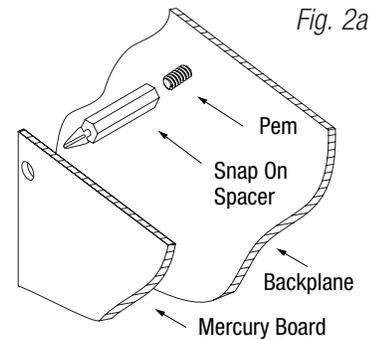
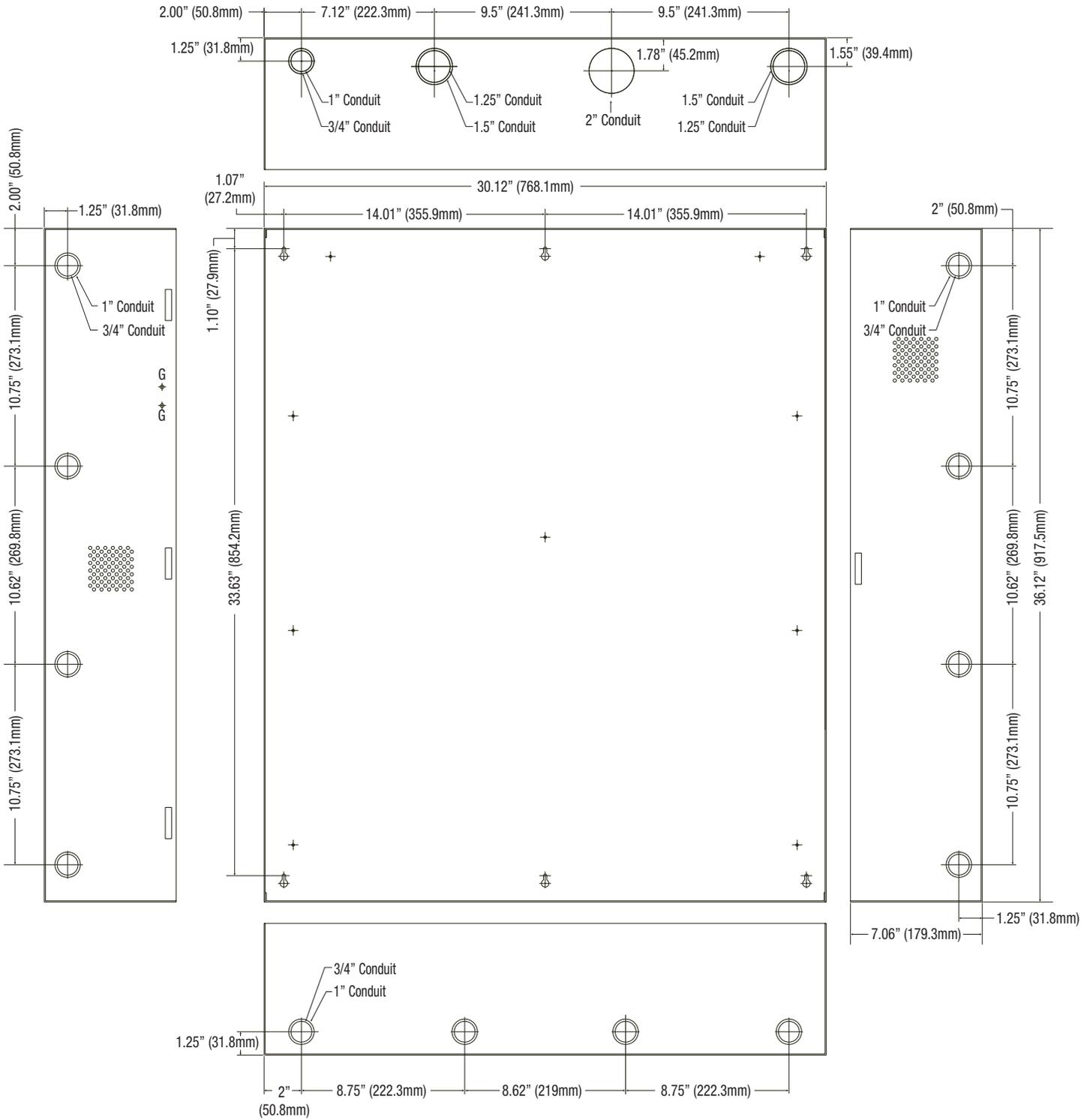


Fig. 2a



## 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)



Altronix is not responsible for any typographical errors.

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