TROVE™

Access & Power Integration

Altronix/Mercury Kits

Models Include:

T3MK5F16P

16 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury backplane
- One (1) eFlow102NB - Power Supply/Charger
- Two (2) PD8UL - Fuse Protected Power Distribution Modules

T3MK5F16PD

16 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury backplane
- One (1) eFlow102NB - Power Supply/Charger
- Two (2) PD8ULCB - PTC Protected Power Distribution Modules

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

Installation Guide

CE

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Rev. 111824

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix T3MK5F16P(D) Trove Mercury kit is pre-assembled and consists of Trove3M3 enclosure with factory installed Altronix power supply/ charger and sub-assemblies. T3MK5F16P kit also accommodates various combinations of Mercury boards for up to sixteen (16) doors in a single enclosure.

Configuration Chart:

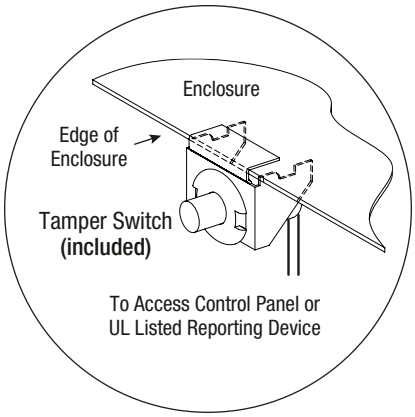
Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Boards Input Fuse Ratings	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage [DC] Output Range (VDC)	Nominal DC Output Voltage [Aux] Output Range (VDC)	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and PD8ULD(CB) outputs	Fuse (PTC) Protected Outputs	Current Per PD8UL(CB) Output (A)	PD8UL(CB) Board Output Fuse (PTC) Rating
T3MK5F16P	3.5	5A/250V	10A/32V	9.7-13.2	10.03-13.2	12VDC @ 10A	16	2.5	3.5A/250V
T3MK5F16PD								2.0	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/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.
3. Mount included UL Listed tamper switches (Altronix Model TS112 or equivalent) in desired locations, 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. Connect unswitched AC power (120VAC 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 (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.
5. Measure voltage before connecting devices. This helps avoiding potential damage.
6. Mount Mercury modules to backplane(s), refer to *page 3*.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow102NB and corresponding *Sub-Assembly Installation Guides* for PD8UL(CB) for further installation instructions.

Fig. 1



Hardware:

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

T3MK5F16P(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, MR52, MR16IN, MR16OUT	(A)
EP2500, MUX8	(B)
EP1501, MR51e	(C)
MR52	(D)

Fig. 2

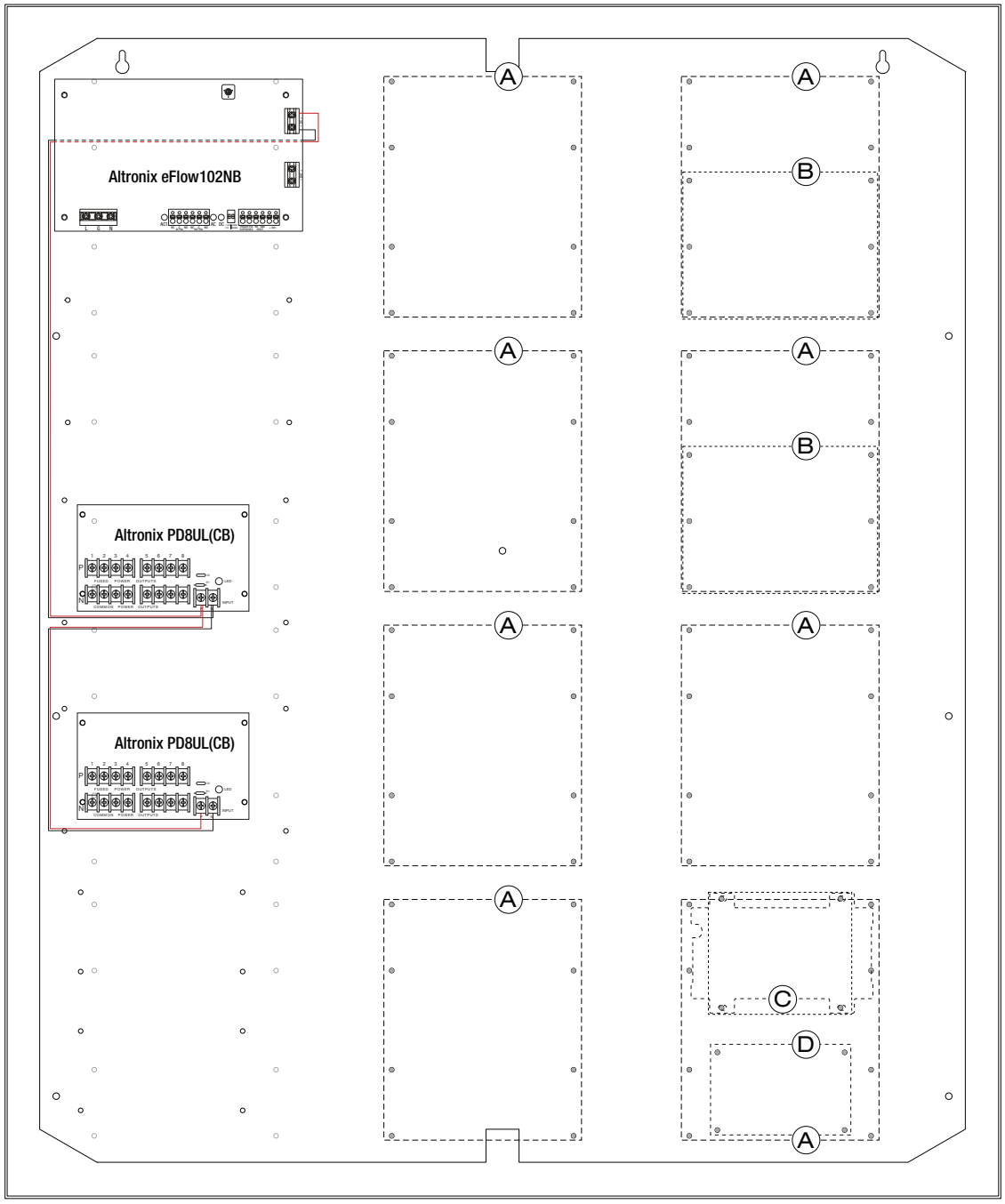
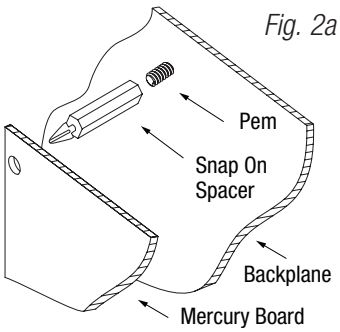


Fig. 2a



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)