

Access & Power Integration

Altronix/Mercury Networked Kits

Models Include:

T3MK77F16SQ

16 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury Backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- One (1) LINQ2 - Network Communication Module
- Two (2) ACM8 - Fused Access Power Controllers
- Two (2) PDS8 - Fused Dual Input Power Distribution Modules
- One (1) VR6 - Voltage Regulator
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Switches

T3MK77F16SDQ

16 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury Backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- One (1) LINQ2 - Network Communication Module
- Two (2) ACM8CB - PTC Access Power Controllers
- Two (2) PDS8CB - PTC Dual Input Power Distribution Modules
- One (1) VR6 - Voltage Regulator
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Switches

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

Installation Guide



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Rev. 061625

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Mercury kits are pre-assembled and consist of Trove3M3 enclosure with factory installed Altronix power supply/chargers and sub-assemblies. They also accommodate 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				Maximum Supply Current for Main and Aux. Outputs on Power Supply board, ACM8(CB) Access Power Controller(s) and PDS8(CB) outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Additional Fuse (PTC) Protected Outputs	Current Per ACM8(CB) and PDS8(CB) Output (A)	ACM8(CB) and PDS8(CB) Board Input Fuse (PTC) Rating	ACM8(CB) and PDS8(CB) Board Output Fuse (PTC) Rating
				Power Supply 1		Power Supply 2							
				[DC]	[Aux]	[DC]	[Aux]						
				Output Range (VDC)	Output Range (VDC)	Output Range (VDC)	Output Range (VDC)						
T3MK77F16SQ	9.0	6.3A/250V	15A/32V	20.17-26.4	20.28-26.4	20.17-26.4	20.28-26.4	24VDC @ 9.6A 24VDC @ 9.6A	16	16	2.5	15A/32V	3A/32V
T3MK77F16SDQ				2.0	9A	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*).

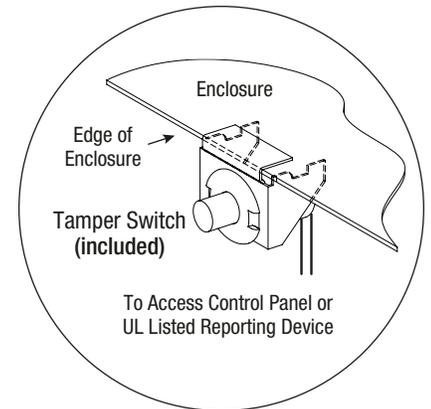
Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the door of the enclosure.

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 eFlow104NB and corresponding *Sub-Assembly Installation Guides* for ACM8(CB), PDS8(CB), and VR6 for further installation instructions.

Fig. 1



Hardware:

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

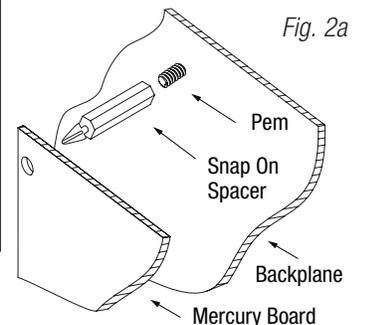
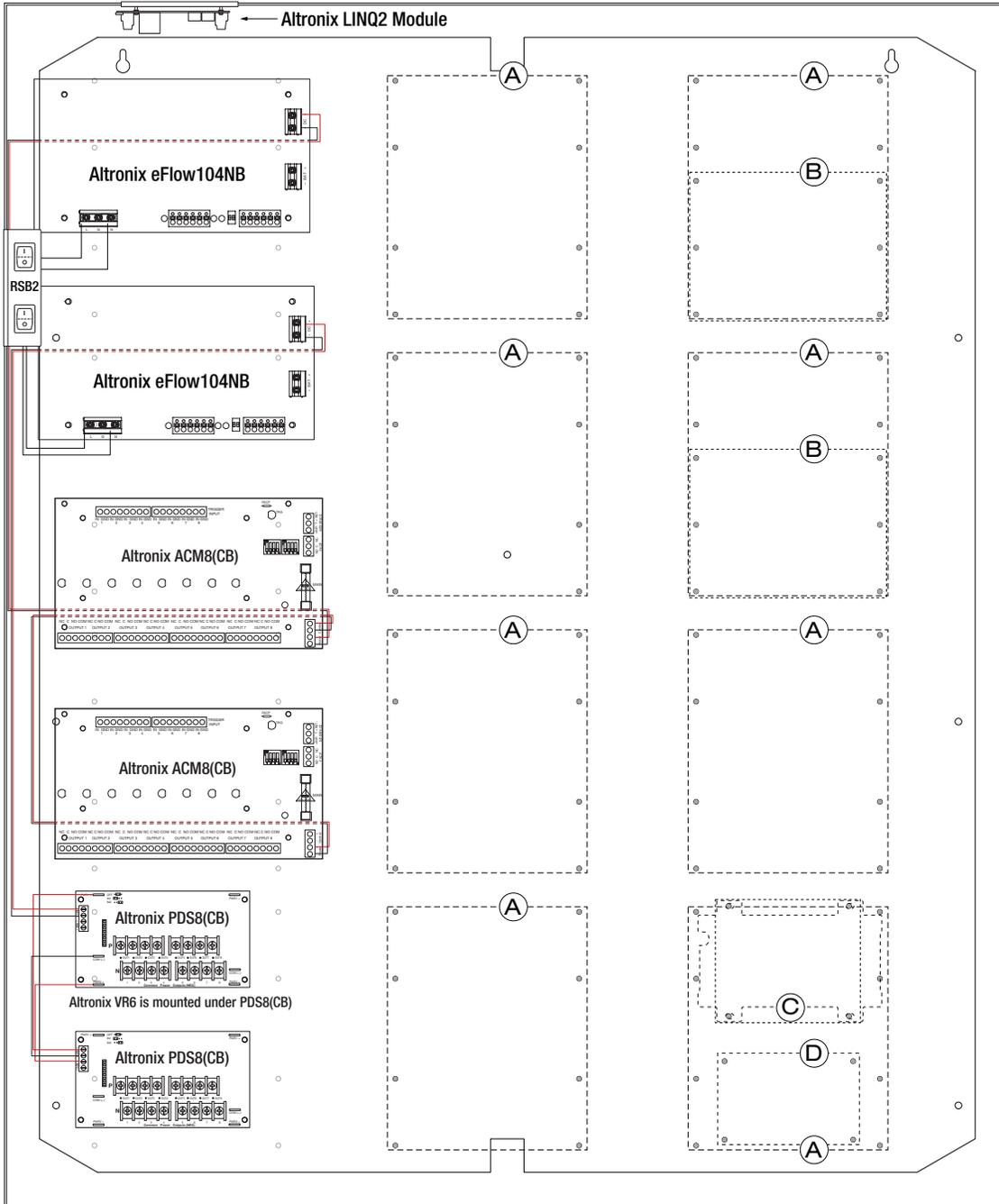
T3MK77F16S(D)Q: Configuration of Mercury Boards on TM3:

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.

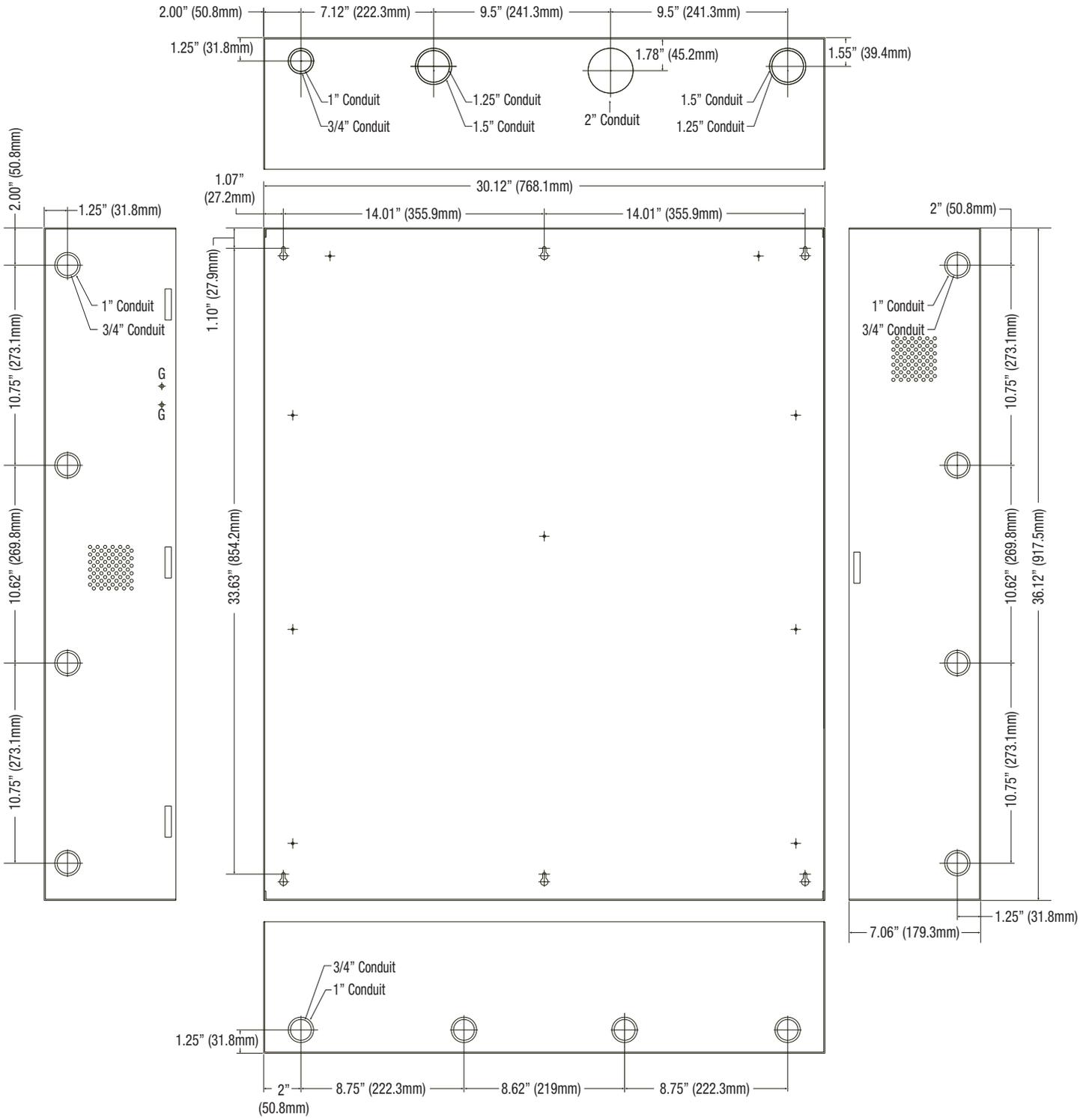
Access Controller Position Chart for the Following Models:

Mercury Access Controller	Pem Mounting
EP1502, MR52, MR16IN, MR16OUT	(A)
EP2500, MUX8	(B)
EP1501, MR51e	(C)
MR52	(D)

Fig. 2



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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