TROVE™

Access & Power Integration

Altronix/Mercury Kits

Models Include:

T2MK74

4 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TM2 Altronix/Mercury backplane
- (1) AL1024ULXB2 - Power Supply/Charger
- (1) ACM4 - Fused Access Power Controller
- (1) PD8UL - Fused Power Distribution Module
- (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch

T2MK74D

4 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with TM2 Altronix/Mercury backplane
- (1) AL1024ULXB2 - Power Supply/Charger
- (1) ACM4CB - PTC Access Power Controller
- (1) PD8ULCB - PTC Power Distribution Module
- (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch

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. 011922

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Mercury kits are pre-assembled and consist of Trove2M2 enclosure/backplane with factory installed Altronix power supply/charger and sub-assemblies. These kits also accommodate various combinations of Mercury boards for up to four (4) doors in a single enclosure.

Configuration Chart:

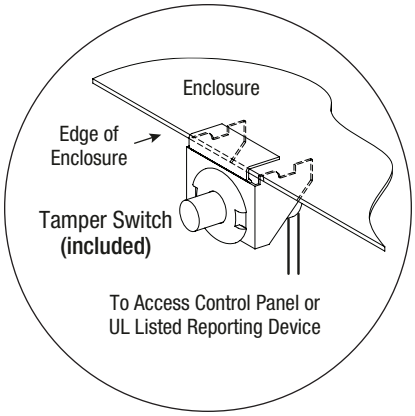
Altronix Model Number	115VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage Range (V)	Maximum Supply Current for Main Output on Power Supply board and ACM4(CB) Access Power Controller's outputs (A)	Fail-Safe/ Fail-Secure Outputs	Current Per ACM4(CB) Output (A)	ACM4(CB) Board Input Fuse (PTC) Rating	ACM4(CB) Board Output Fuse (PTC) Rating	PD8UL(CB) Board Output Fuse (PTC) Rating
T2MK74	4.2	5A/ 250V	N/A	20.19-26.4	24VDC @ 9.7A	4	2.5	10A/ 32V	3A/32V	3.5A/250V
T2MK74D	4.2	5A/ 250V	15A/ 32V	20.17-26.4	24VDC @ 9.7A	–	–	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 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 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.
4. Connect unswitched AC power (115VAC 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 (115VAC 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 boards to backplane, refer to *page 3.*
7. Refer to the *ULXB Power Supply/Charger Installation Guide* for AL1024ULXB2 and *Sub-Assembly Installation Guide* for ACM4(CB) and PD8UL(CB) for further installation instructions.

Fig. 1



Hardware:

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

T2MK74(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)
MR50	(D)

Fig. 2

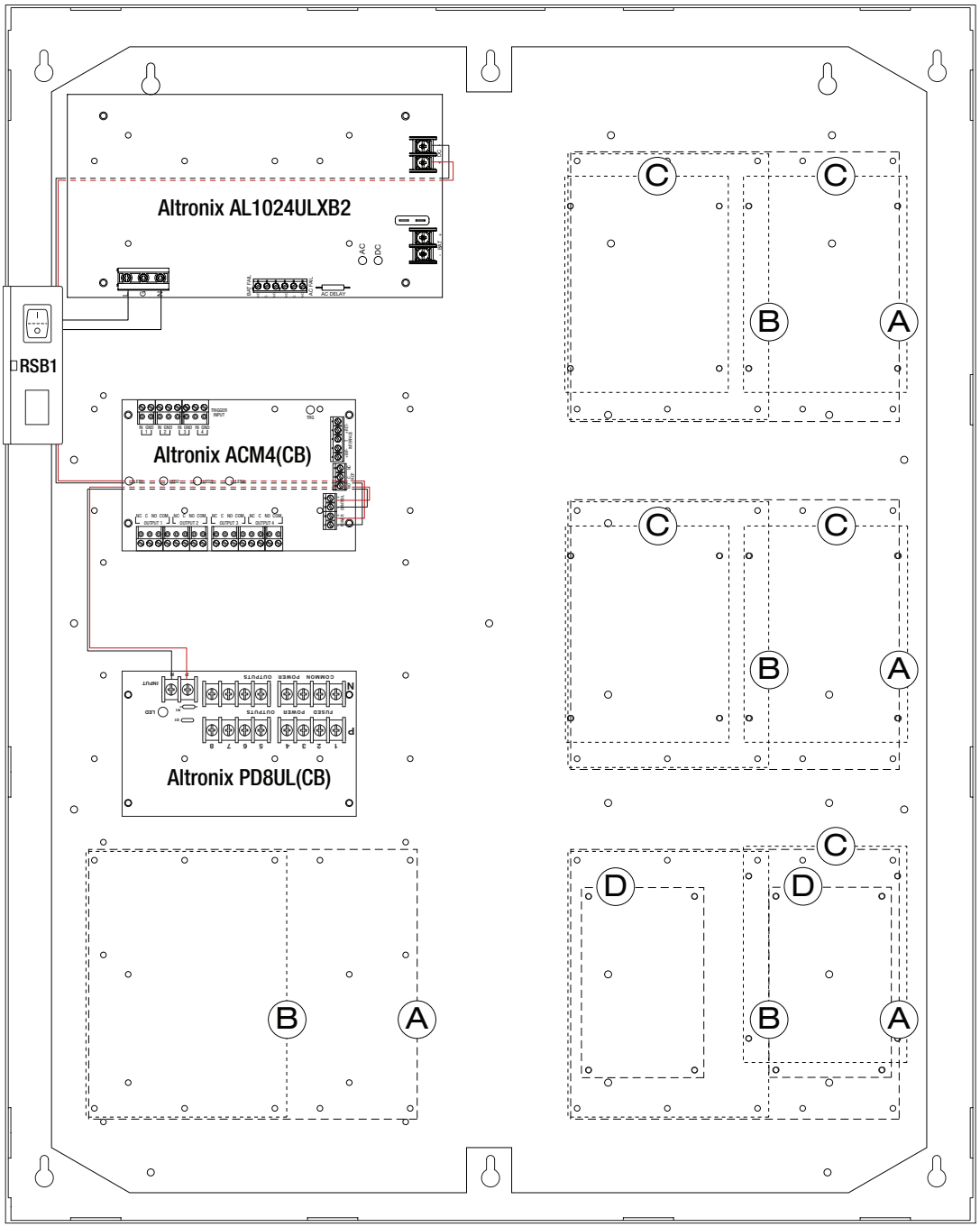
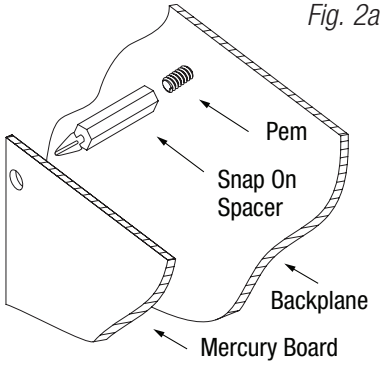
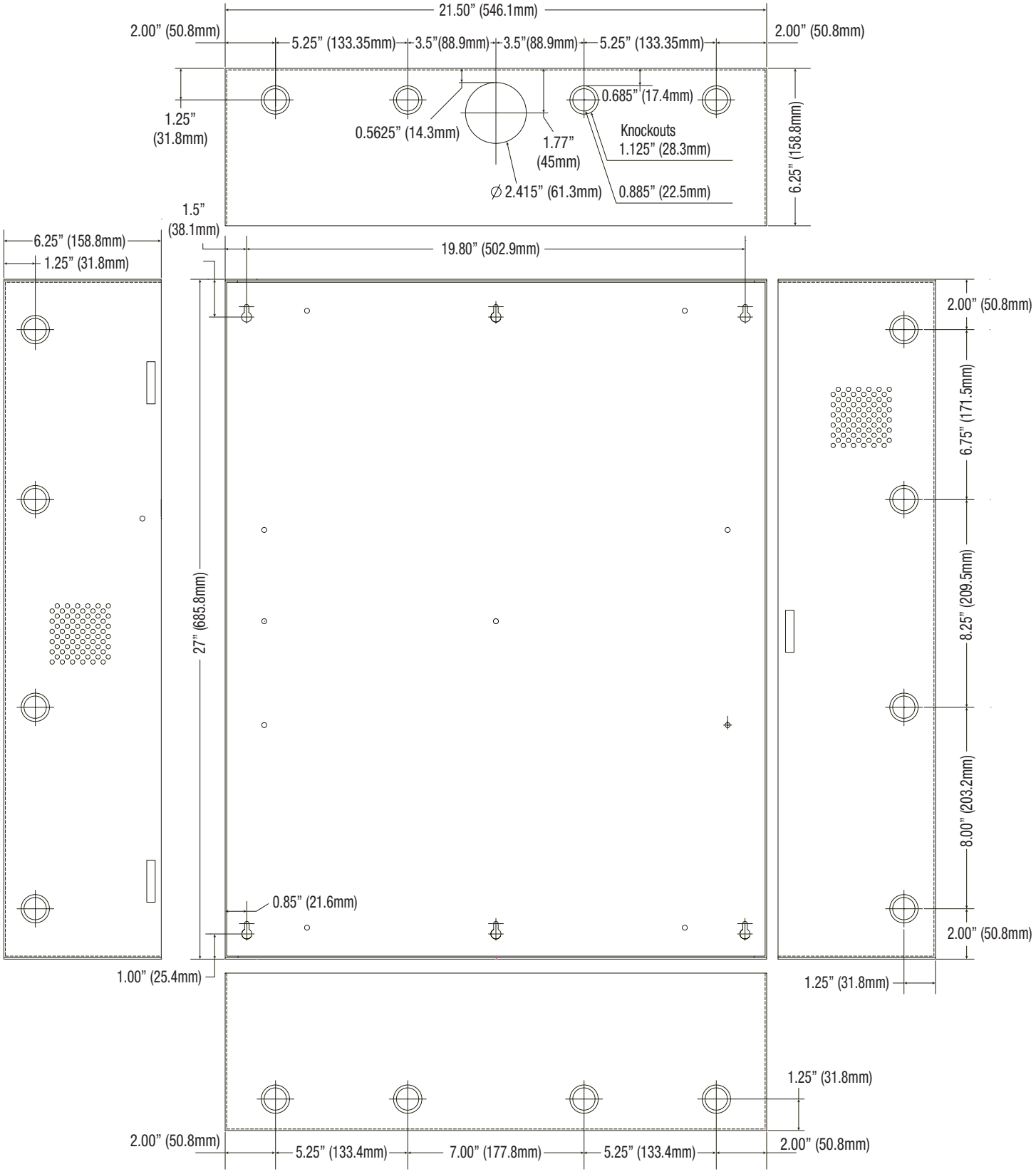


Fig. 2a



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

27.25” x 21.5” x 6.5” (692.2mm x 552.5mm x 165.1mm)



Altronix is not responsible for any typographical errors.

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