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T3M77LCK1 Altronix Mercury Access and Power Integration Kit

T3M77LCK1 Altronix Mercury Access and Power Integration Kit Instruction Manual

Contents

T3M77LCK1 Altronix Mercury Access and Power Integration Kit

Specifications:

- Models:
  - 16 Door Kits with Fused Outputs: T3M77LCK1
  - 14 Door Kits with Fused Outputs: T3M77LCK2
  - 16 Door Kits with Fused Outputs: T3M77LCK3
- Components included:
  - Trove3 enclosure with TM3 Altronix/Mercury backplane
  - Power Supply/Charger (AL1024ULXB2)
  - Dual Input/Output Fuse Protected Access Power Controller (ACMS8)
  - Voltage Regulator (VR6)
  - Dual Input/Output Fuse Protected Power Distribution Module (PDS8)
  - Rocker Switch Bracket with Two Rocker Switches
  - Wire harnesses and management

Product Usage Instructions

Installation:

1. Ensure all components are included in the kit.
2. Refer to the Installation Guide for detailed instructions on assembling the Trove kit.

3. Follow the provided Sub-Assembly Installation Guides for further information.

Power Integration:

- The Trove kits are pre-wired and pre-assembled for easy integration.
- Connect the Trove enclosure to the power source using the included power supply/charger.
- Distribute power using the Power Distribution Module to the designated components.

Fuse Protection:

- Ensure proper fuse ratings for input and output protection.
- Refer to the Configuration Chart for details on fuse ratings and power supply specifications.
- Replace fuses with the correct rating if needed.

FAQ:

- Q: Can I expand the number of doors supported by the kits?
  A: The kits are designed to accommodate a specific number of doors as mentioned in the model descriptions. It is not recommended to exceed the supported door limit due to power and compatibility constraints.
- Q: Are the components in the kit compatible with other access control systems?
  A: The components in the Altronix Trove kits are optimized for integration within Altronix/Mercury systems. Compatibility with other systems may vary, and it is recommended to consult with technical support before attempting integration|

Models Include:

- **16 Door Kits with Fused Outputs:**
  T3M77LCK1 Accommodates one (1) Intelligent Dual Reader Controller and seven (7) Dual Reader Interface Modules.
- **14 Door Kits with Fused Outputs:**
  T3M77LCK2 Accommodates one (1) Intelligent Controller and seven (7) Dual Reader Interface Modules.
- **16 Door Kits with Fused Outputs:**
  T3M77LCK3 Accommodates up to eight (8) Dual Reader Interface Modules.
  Each fully assembled kit includes:
  - Trove3 enclosure with TM3 Altronix/Mercury backplane
  - Two (2) AL1024ULXB2 – Power Supply/Charger
  - Two (2) ACMS8 – Dual Input/Output Fuse Protected Access Power Controller
  - Two (2) VR6 – Voltage Regulator
  - Two (2) PDS8 – Dual Input/Output Fuse Protected Power Distribution Module
  - One (1) Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL)
  - Wire harnesses and management
- **16 Door Kits with PTC Outputs:**
  T3M77LCK1D Accommodates one (1) Intelligent Dual Reader Controller and seven (7) Dual Reader Interface Modules.

- **14 Door Kits with PTC Outputs:**

  T3M77LCK2D Accommodates one (1) Intelligent Controller and seven (7) Dual Reader Interface Modules.

- **16 Door Kits with PTC Outputs:**

  T3M77LCK3D Accommodates up to eight (8) Dual Reader Interface Modules. Each fully assembled kit includes:

  - Trove3 enclosure with TM3 Altronix/Mercury backplane
  - Two (2) AL1024ULXB2 – Power Supply/Charger
  - Two (2) ACMS8CB – Dual Input/Output PTC Protected Access Power Controller
  - Two (2) VR6 – Voltage Regulator
  - Two (2) PDS8CB – Dual Input/Output PTC Protected Power Distribution Module
  - One (1) Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL)
  - Wire harnesses and management

Installation Guide

All components of this Trove kit are UL-listed as sub-assemblies. Please refer to the included corresponding Sub-Assembly Installation Guides for further information

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Rev. T3M77LCK050622

- Installing Company: _____
- Service Rep. Name: _____
- Address: _____
- Phone #: _____

Overview

Altronix Trove Plus kits are pre-wired, and pre-assembled and consist of Trove3M3 enclosure/backplane with factory-installed Altronix power supply/charger(s) and sub-assemblies, wire harnesses and finger duct.

Configuration Chart

Altronix Model Number	115V AC 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 Outputs on Power Supply boards and ACMS8(CB) Access Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per ACMS8 and PDS8(CB) Output (A)	ACMS8(CB) Board Input Fuse (PTC) Rating	ACMS8(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating
				Power Supply 1 Output Range (VDC)	Power Supply 2 Output Range (VDC)							
T3M77LCK1												
T3M77LCK2												
T3M77LCK3								2.5	15A/32V	3A/32V	10A/32V	3A/32V
T3M77LCK1D	8.4	5A/250V	15A/32V	20.17-26.4	20.17-26.4	24VDC @ 9.4A	16					
T3M77LCK2D								2.0	9A	2.5A	9A	2.5A
T3M77LCK3D												

Hardware and Accessories:

- Two (2) tamper switches (Altronix Model TS112 or equivalent).
  Cam lock.
- Battery leads.

Mechanical:

- 16 Gauge enclosure with ample knockouts for convenient access.
- Enclosure Dimensions (H x W x D): 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm).

Installation Instructions:
Wiring methods shall be by the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. The product is intended for indoor use only.

- Remove the backplane from the enclosure. Do not discard hardware.
- 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.

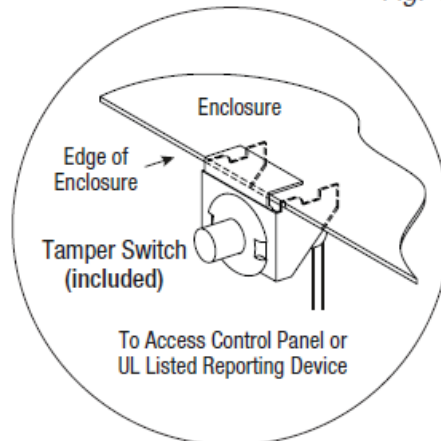Install the three lower screws and make sure to tighten all screws.

- Mount included UL-listed tamper switches (Altronix Model TS112 or equivalent) in the 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 the alarm signal open the door of the enclosure.

- Mount Mercury boards to the backplane, refer to pg. 3, 4.
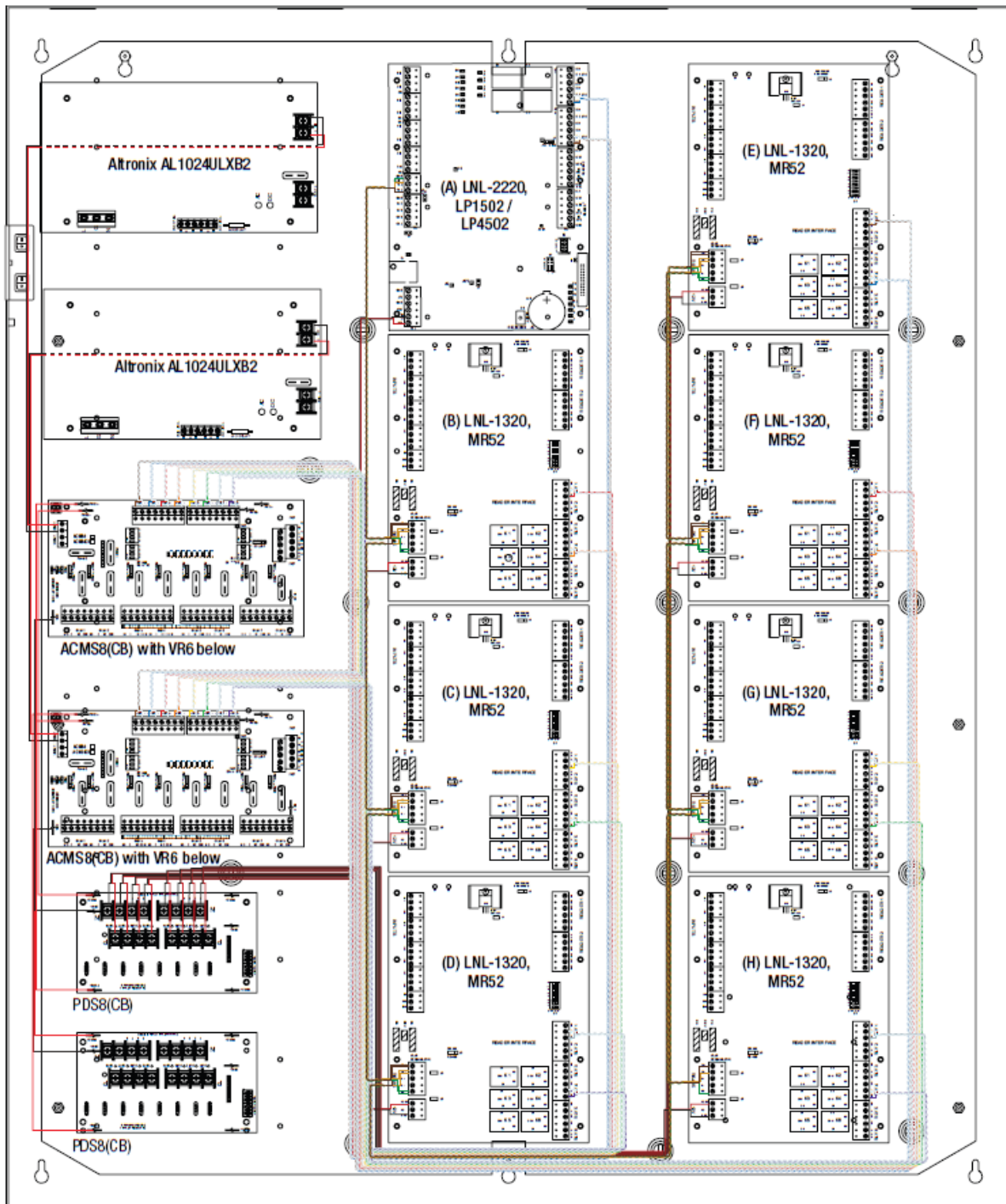

Fig. 1

- Refer to the ULXB Power Supply/Charger Installation Guide for AL1024ULXB2 and corresponding Sub-Assembly Installation Guides for PDS8(CB) and ACMS8(CB) for further installation instructions.
- Position Lenel/Mercury access controller module over corresponding spacers and depress onto snap-on spacers (Fig. 2-4, pg. 3-5).
- Mount backplane to enclosure with hardware.

T3M77LCK1 (T3M77LCK1D) Configuration

1. Position the access controller module over corresponding spacers and depress it onto snap-on spacers (Fig. 2, pg. 3).
2. Mount backplane to enclosure with hardware.

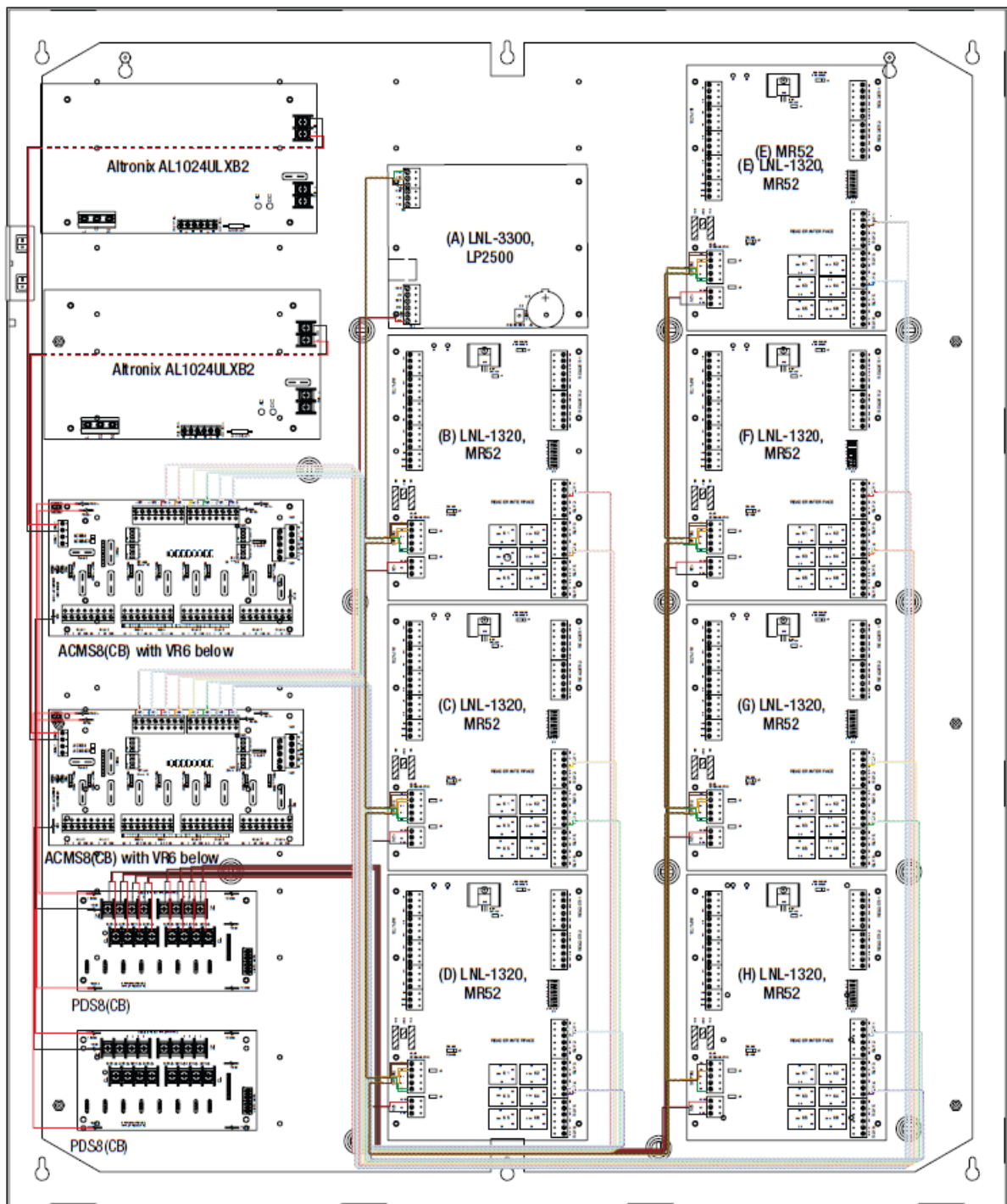**Access Controller Position Chart for the Following Models:**

LenelS2 / Mercury Access Controller	Pem Mounting
LNL-2220 / LP1502 / LP4502	A
LNL-1320 / MR52	B C D E F G H

T3M77LCK2 (T3M77LCK2D) Configuration:

1. Position the access controller module over corresponding spacers and depress it onto snap-on spacers (Fig. 3, pg. 4).
2. Mount backplane to enclosure with hardware.

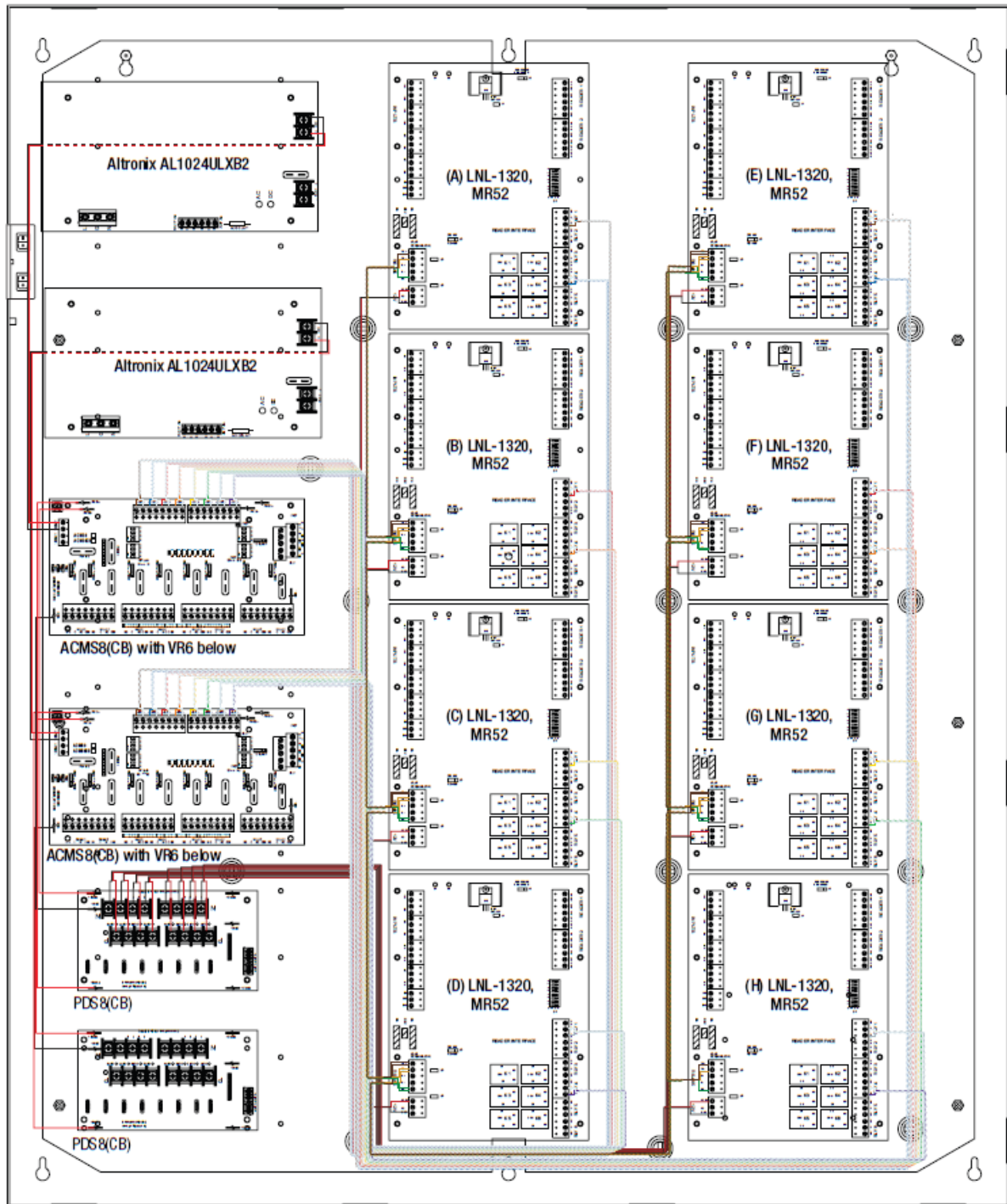**Access Controller Position Chart for the Following Models**

LenelS2 / Mercury Access Controller	Pem Mounting
LNL-3300 / LP2500	A
LNL-1320 / MR52	B C D E F G H

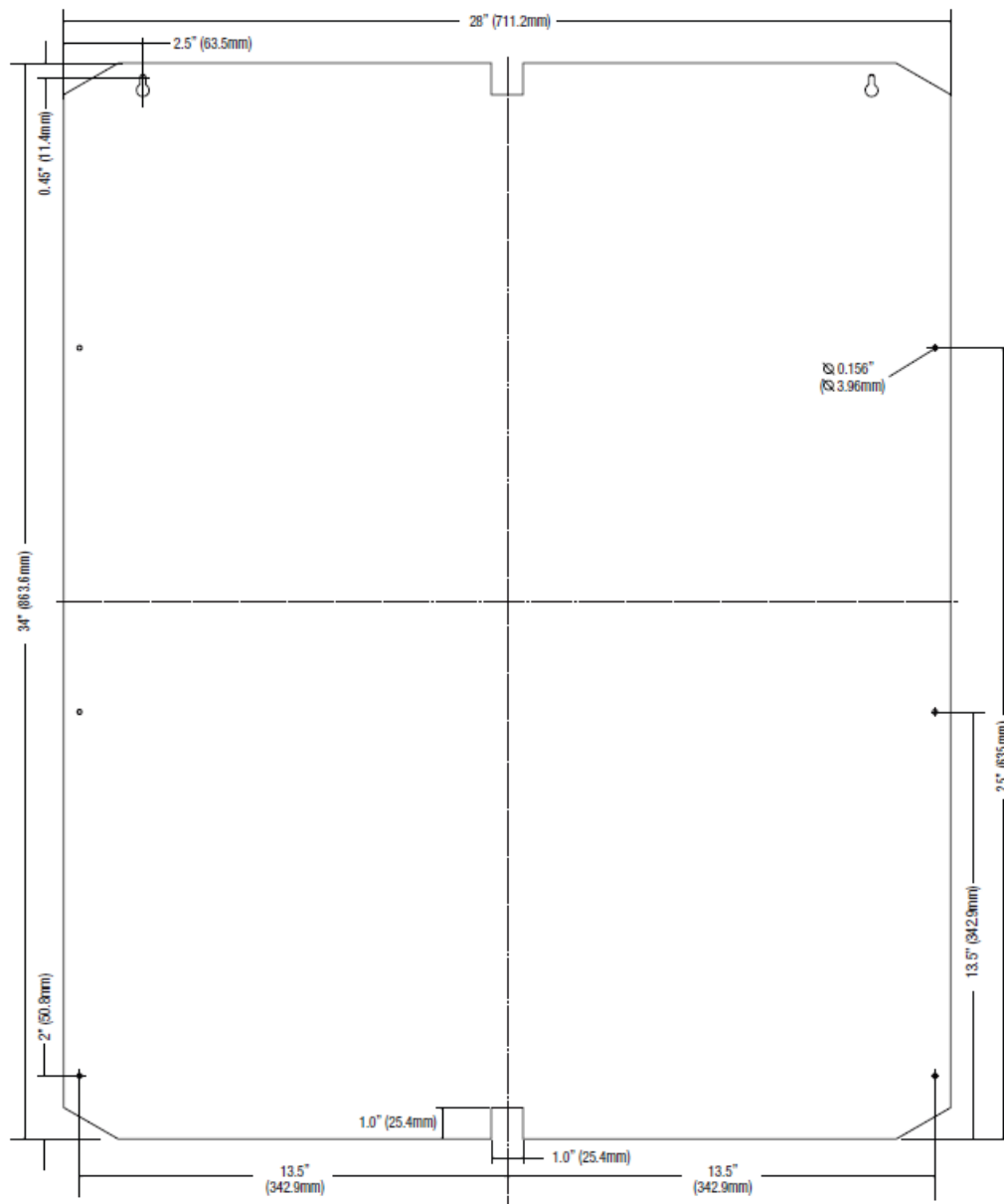**T3M77LCK3 (T3M77LCK3D) Configuration:**

1. Position the access controller module over corresponding spacers and depress it onto snap-on spacers (Fig. 4, pg. 5).
2. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models:

TM3 Dimensions

34" x 28" x 0.3125" (863.6mm x 711.2mm x 7.9mm)

28" (711.2mm)

2.5" (63.5mm)

0.45" (11.4mm)

⌀ 0.156"
(⌀ 3.96mm)

34" (863.6mm)

2.5" (635mm)

13.5" (342.9mm)

2" (50.8mm)

1.0" (25.4mm)

1.0" (25.4mm)

13.5"
(342.9mm)

13.5"
(342.9mm)

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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Documents / Resources

Altronix T3M77LCK1 Altronix Mercury Access and Power Integration Kit [pdf] Instruction Manual

T3M77LCK1 Altronix Mercury Access and Power Integration Kit, T3M77LCK1, Altronix Mercury Access and Power Integration Kit, Mercury Access and Power Integration Kit, Access and Power Integration Kit, Power Integration Kit, Integration Kit, Kit

References

- **Altronix Home**
- **User Manual**