

Access & Power Integration

## Altronix/Mercury Wired Networked Kits

### Models Include:

#### T3M77XK1Q

16 Door Kit with Fused Outputs

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

#### T3M77XK2Q

14 Door Kit with Fused Outputs

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

#### T3M77XK3Q

16 Door Kit with Fused Outputs

Accommodates up to eight (8) Dual Reader Interface Modules.

Each fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury/LenelS2 backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- Two (2) LINQ8ACM - Dual Input/Output Fuse Protected Networked Access Power Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) LINQ8PD - Dual Input/Output Fuse Protected Networked Power Distribution Modules
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches
- Wire harnesses and finger duct

#### T3M77XK1DQ

16 Door Kit with PTC Outputs

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

#### T3M77XK2DQ

14 Door Kit with PTC Outputs

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

#### T3M77XK3DQ

16 Door Kit with PTC Outputs

Accommodates up to eight (8) Dual Reader Interface Modules.

Each fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury/LenelS2 backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- Two (2) LINQ8ACMCB - Dual Input/Output PTC Protected Networked Access Power Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) LINQ8PDCB - Dual Input/Output PTC Protected Networked Power Distribution Modules
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches
- Wire harnesses and finger duct

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

## Installation Guide



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Rev. T3M77XKQ100421

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

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



More than just power.™

## Overview:

Altronix Trove Plus kits are pre-wired, 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<br>Model Number | 120VAC 60Hz<br>Input Current (A) | Power Supply Board<br>Input Fuse Rating | Power Supply Board<br>Battery Fuse Rating | Nominal DC Output Voltage |                       |                       |                       | Maximum Supply<br>Current for Main and<br>Aux. Outputs on<br>Power Supply board<br>and LINQ8ACM(CB)<br>Access Power<br>Controller's outputs | Fail-Safe/Fail-Secure or<br>Dry Form "C" Outputs | Current Per LINQ8ACM(CB)<br>and LINQ8PD(CB) Output (A) | LINQ8ACM(CB) and<br>LINQ8PD(CB) Board<br>Input Fuse (PTC) Rating | LINQ8ACM(CB) Board<br>Output Fuse (PTC) Rating | LINQ8PD(CB) Board<br>Output Fuse (PTC) Rating |
|--------------------------|----------------------------------|-----------------------------------------|-------------------------------------------|---------------------------|-----------------------|-----------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------|
|                          |                                  |                                         |                                           | Power Supply 1            |                       | Power Supply 2        |                       |                                                                                                                                             |                                                  |                                                        |                                                                  |                                                |                                               |
|                          |                                  |                                         |                                           | [DC]                      | [Aux]                 | [DC]                  | [Aux]                 |                                                                                                                                             |                                                  |                                                        |                                                                  |                                                |                                               |
|                          |                                  |                                         |                                           | Output Range<br>(VDC)     | Output Range<br>(VDC) | Output Range<br>(VDC) | Output Range<br>(VDC) |                                                                                                                                             |                                                  |                                                        |                                                                  |                                                |                                               |
| T3M77XK1Q                | 9                                | 6.3A/<br>250V                           | 15A/<br>32V                               | 20.17-<br>26.4            | 20.28-<br>26.4        | 20.17-<br>26.4        | 20.28-<br>26.4        | 24VDC @ 9.4A                                                                                                                                | 16                                               | 2.5                                                    | 15A/<br>32V                                                      | 3A/<br>32V                                     | 3A/<br>32V                                    |
| T3M77XK2Q                |                                  |                                         |                                           |                           |                       |                       |                       |                                                                                                                                             |                                                  |                                                        |                                                                  |                                                |                                               |
| T3M77XK3Q                |                                  |                                         |                                           |                           |                       |                       |                       |                                                                                                                                             |                                                  |                                                        |                                                                  |                                                |                                               |
| T3M77XK1DQ               |                                  |                                         |                                           |                           |                       |                       |                       |                                                                                                                                             |                                                  | 2.0                                                    | 9A                                                               | 2.5A                                           | 2.5A                                          |
| T3M77XK2DQ               |                                  |                                         |                                           |                           |                       |                       |                       |                                                                                                                                             |                                                  |                                                        |                                                                  |                                                |                                               |
| T3M77XK3DQ               |                                  |                                         |                                           |                           |                       |                       |                       |                                                                                                                                             |                                                  |                                                        |                                                                  |                                                |                                               |

## 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 switches (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 (120VAC 60Hz) to RSB2. 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.

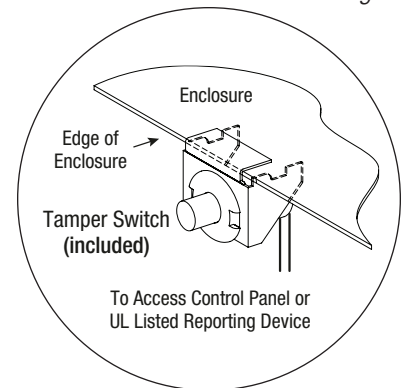
**Keep power-limited wiring separate from non power-limited wiring (120VAC 60Hz Input, Battery Wires). Minimum 0.25" spacing must be provided.**

**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 boards to backplane, refer to *pg. 3-5*.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow104NB and corresponding *Sub-Assembly Installation Guides* for VR6, LINQ8PD(CB) and LINQ8ACM(CB) for further installation instructions.
8. Position Lenel/Mercury access controller module over corresponding spacers and depress onto snap on spacers (*Fig. 2-4, pg. 3-5*).
9. Mount backplane to enclosure with hardware.

Fig. 1



## Hardware:

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

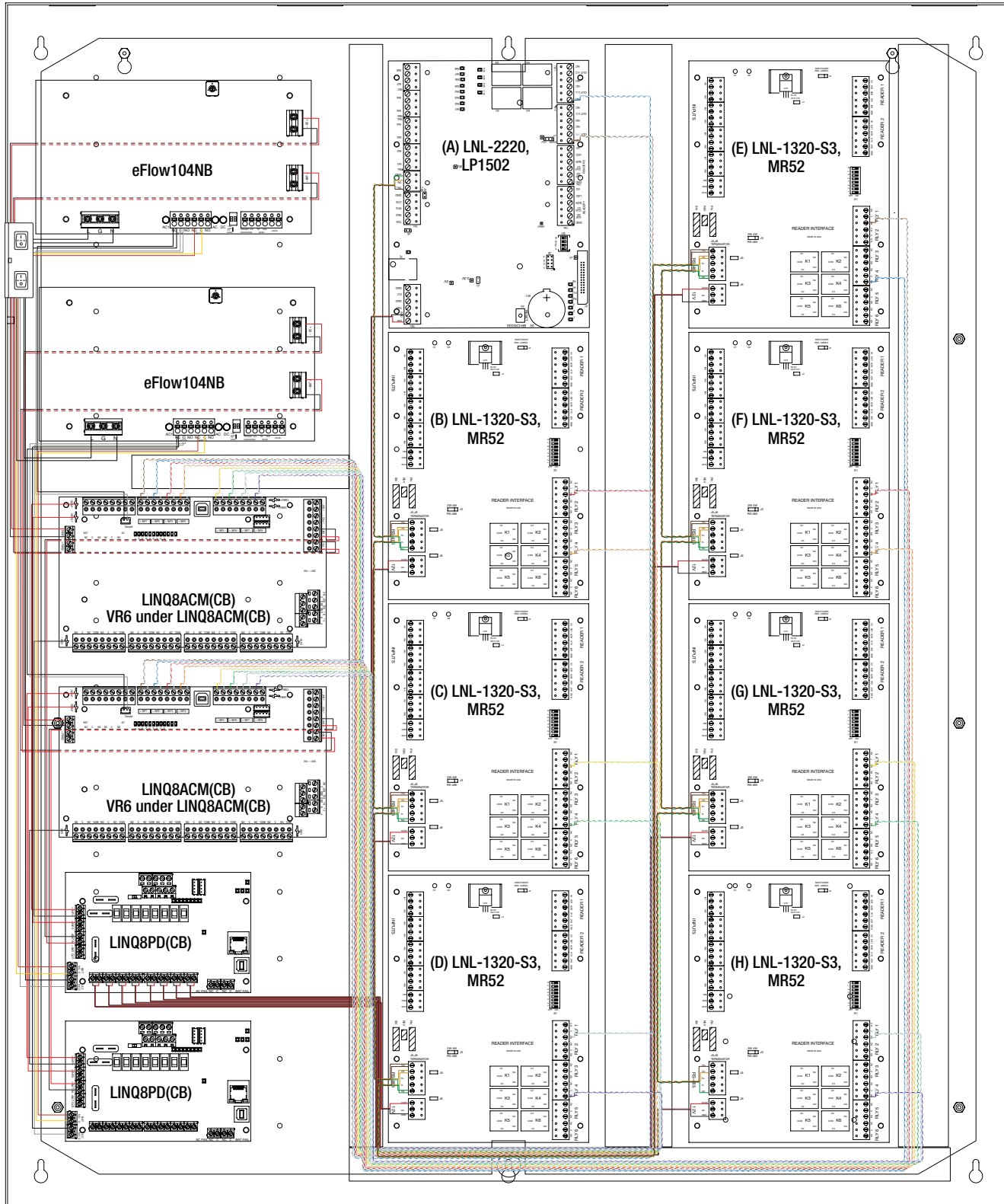
## T3M77XK1Q (T3M77XK1DQ) Configuration:

1. Position access controller module over corresponding spacers and depress 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                   | (A)                         |
| LNL-1320 / MR52                     | (B) (C) (D) (E) (F) (G) (H) |

Fig. 2



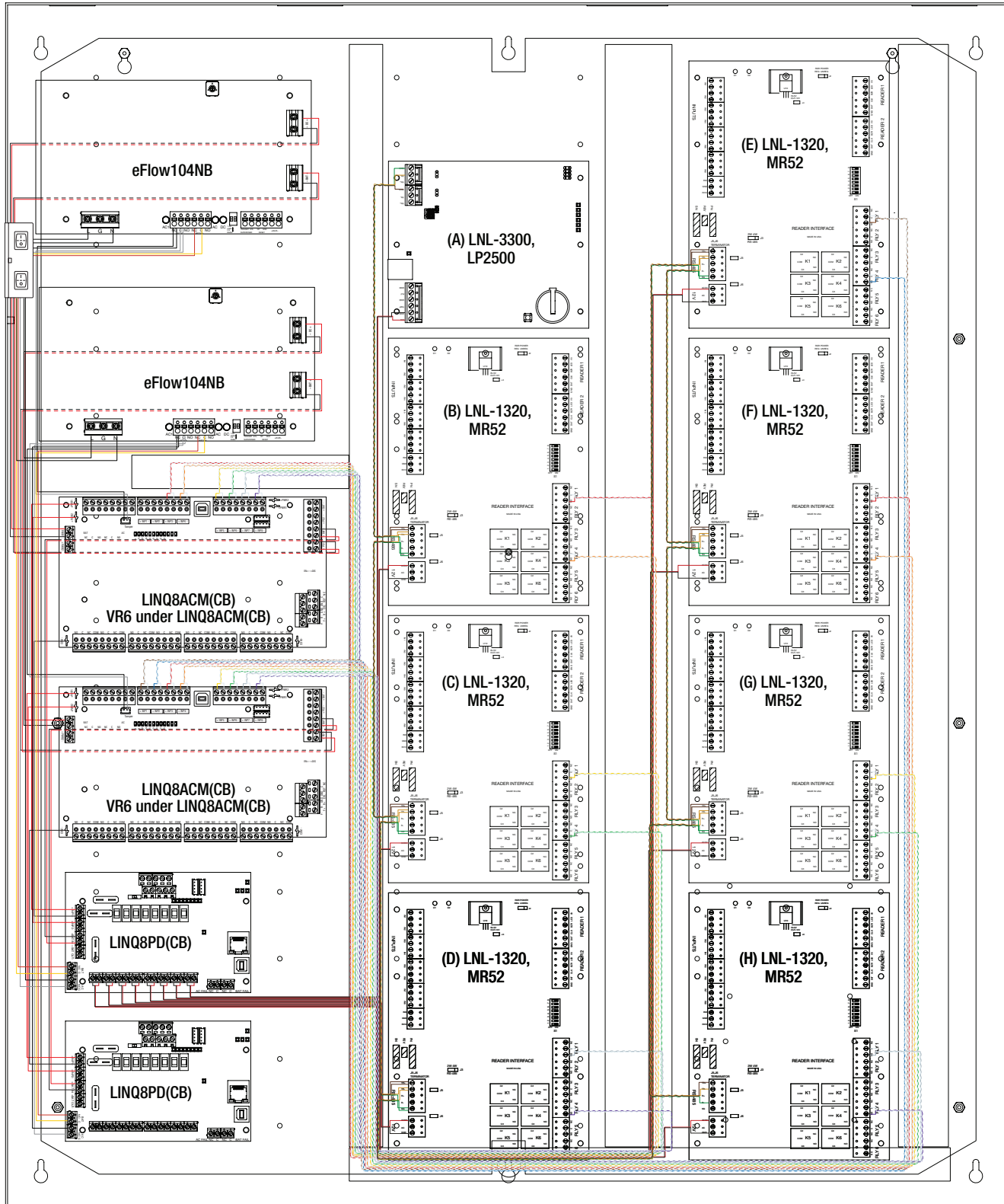
## T3M77XK2Q (T3M77XK2DQ) Configuration:

1. Position access controller module over corresponding spacers and depress 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) |

Fig. 3



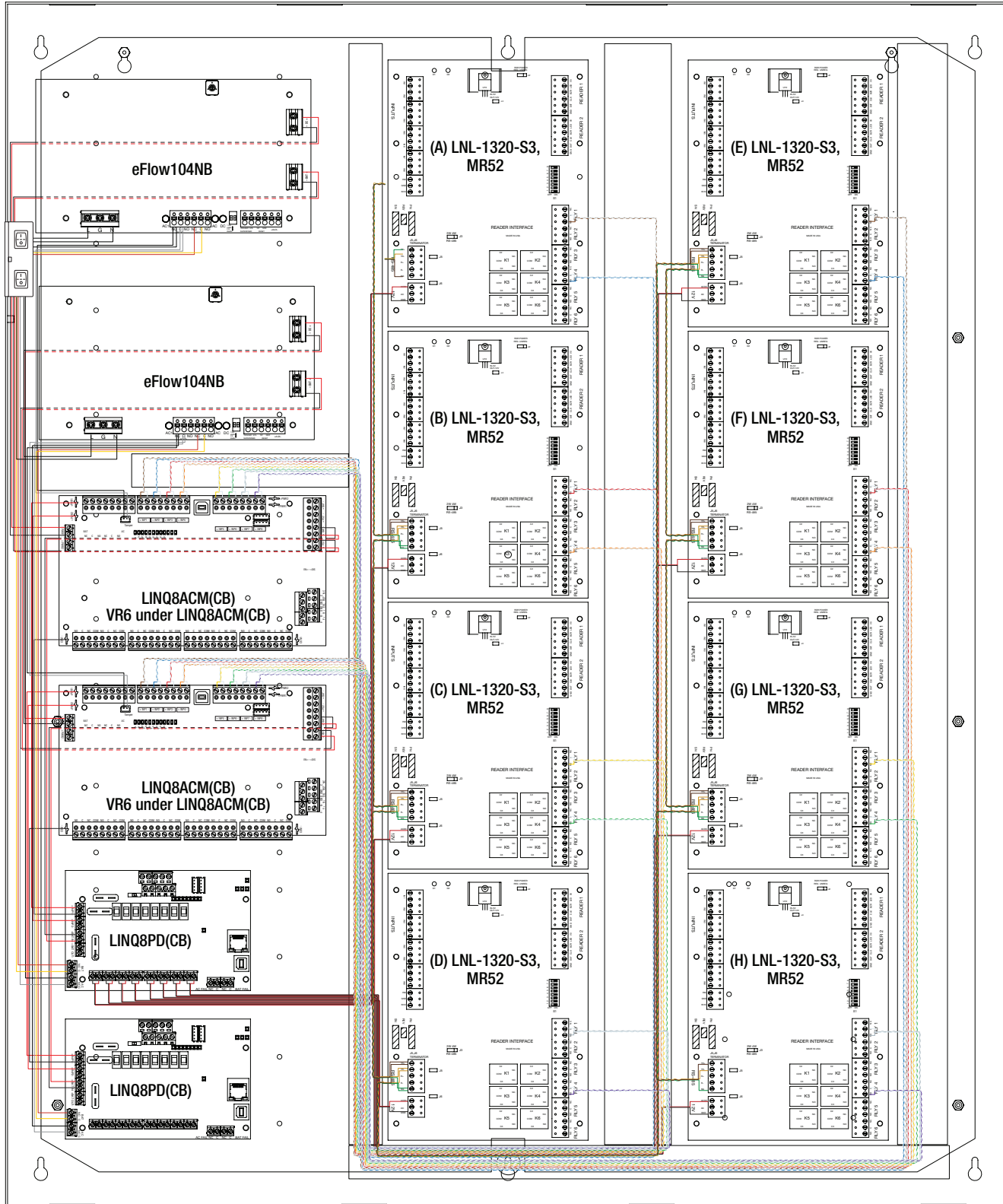
## T3M77XK3Q (T3M77XK3DQ) Configuration:

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

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

| LenelS2 / Mercury Access Controller | Pem Mounting                |
|-------------------------------------|-----------------------------|
| LNL-1320 / MR52                     | (A) (B) (C) (D) (E) (F) (G) |

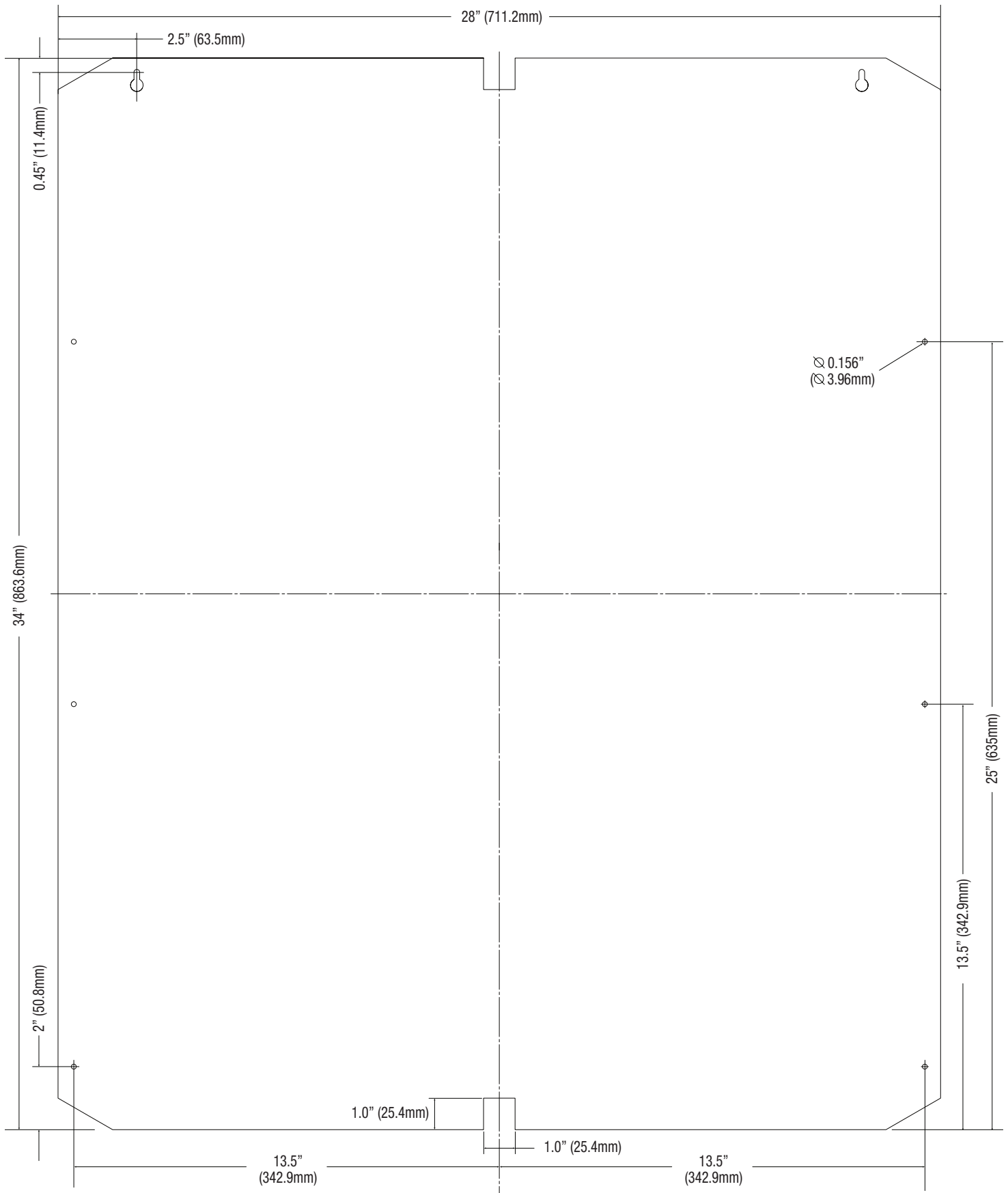
Fig. 4



## Notes:

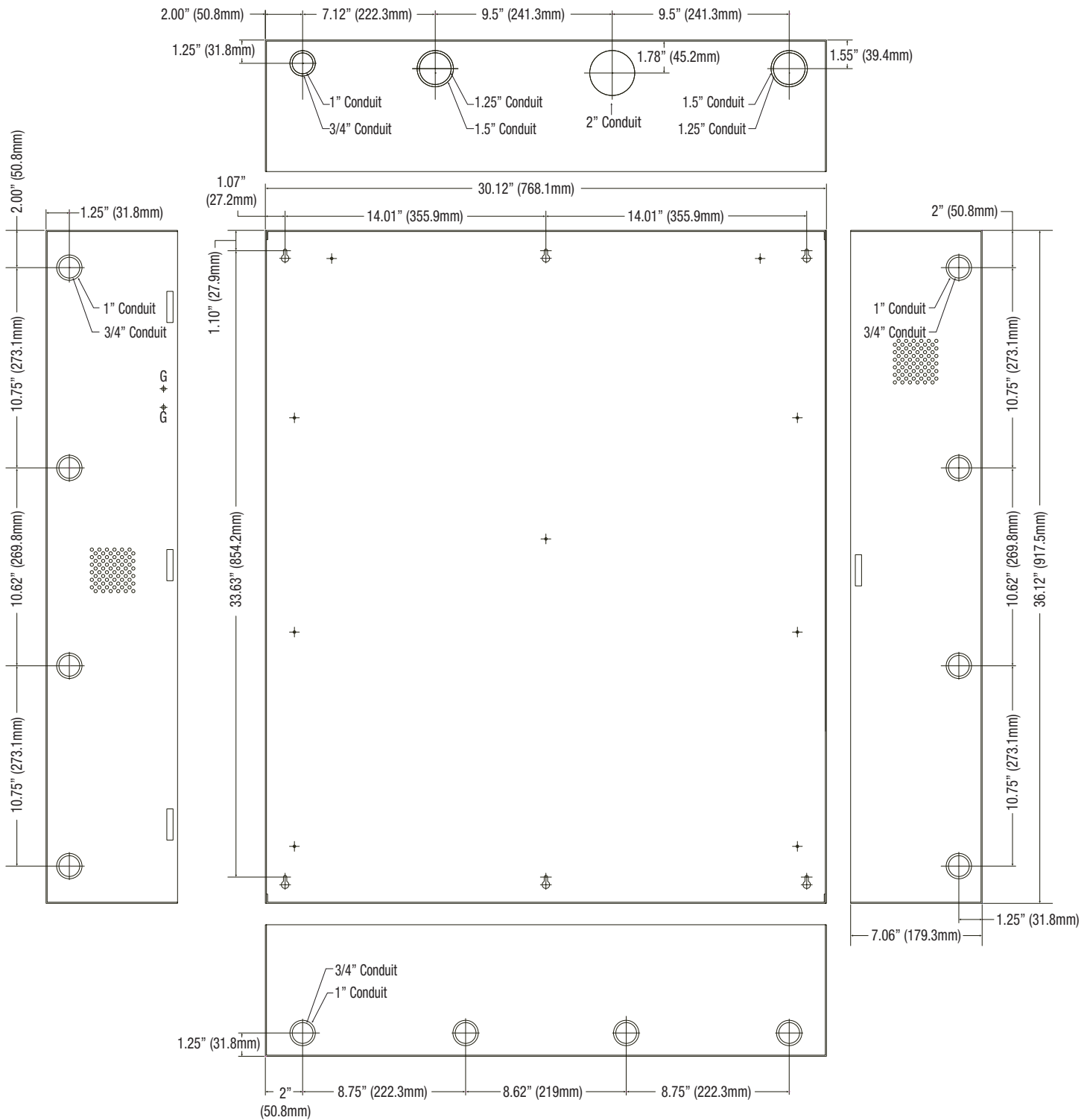
### TM3 Dimensions:

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



## 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. Product specifications are subject to change without notice.

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 IIT3M77XKQ Kit Series

F30W



T3M77XKQ Kit Series Installation Guide