TROVE™ PLUS

Access & Power Integration

Altronix/Mercury Wired Kits

Models Include:

T3M77XK1V

16 Door Kit with Fused Outputs

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

T3M77XK2V

14 Door Kit with Fused Outputs

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

T3M77XK3V

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 backplane
- Two (2) eFlow104NBV - 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) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches
- Wire harnesses and finger duct

T3M77XK1DV

16 Door Kit with PTC Outputs

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

T3M77XK2DV

14 Door Kit with PTC Outputs

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

T3M77XK3DV

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 backplane
- Two (2) eFlow104NBV - 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) 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

CE

Altronix®

More than just power.™

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Rev. T3M77XKV_071023

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

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:

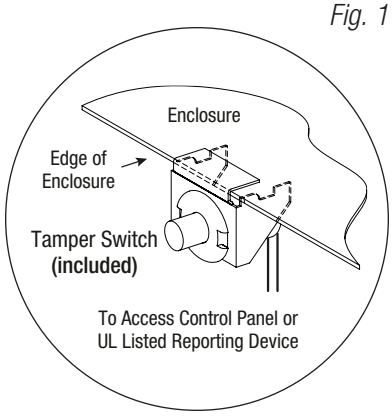
Altronix Model Number	220VAC 50/60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8(CB) Access Power Controller's outputs	Fail-Safe/Fail-Secure 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		Power Supply 2								
				[DC]	[Aux]	[DC]	[Aux]							
				Output Range (VDC)	Output Range (VDC)	Output Range (VDC)	Output Range (VDC)							
T3M77XK1	5.4	6.3A/ 250V	15A/ 32V	20.17-26.4	20.28-26.4	20.17-26.4	20.28-26.4	24VDC @ 9.4A	16	2.5	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T3M77XK2														
T3M77XK3														
T3M77XK1D										2.0	9A	2.5A	9A	2.5A
T3M77XK2D														
T3M77XK3D														

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 (220VAC 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 (220VAC 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 eFlow104NBV and corresponding *Sub-Assembly Installation Guides* for PDS8(CB) and ACMS8(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

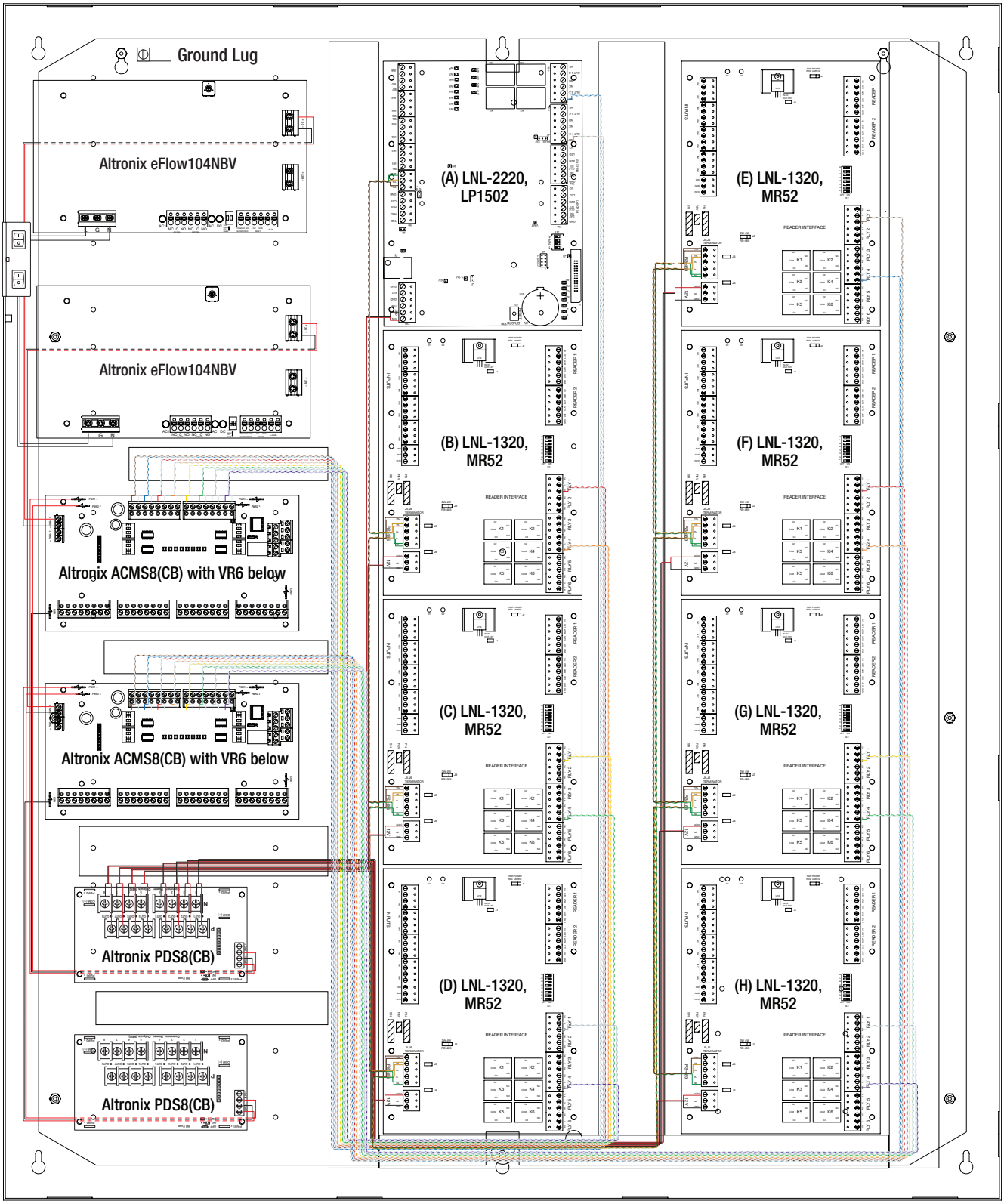
T3M77XK1V (T3M77XK1DV) Configuration:

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



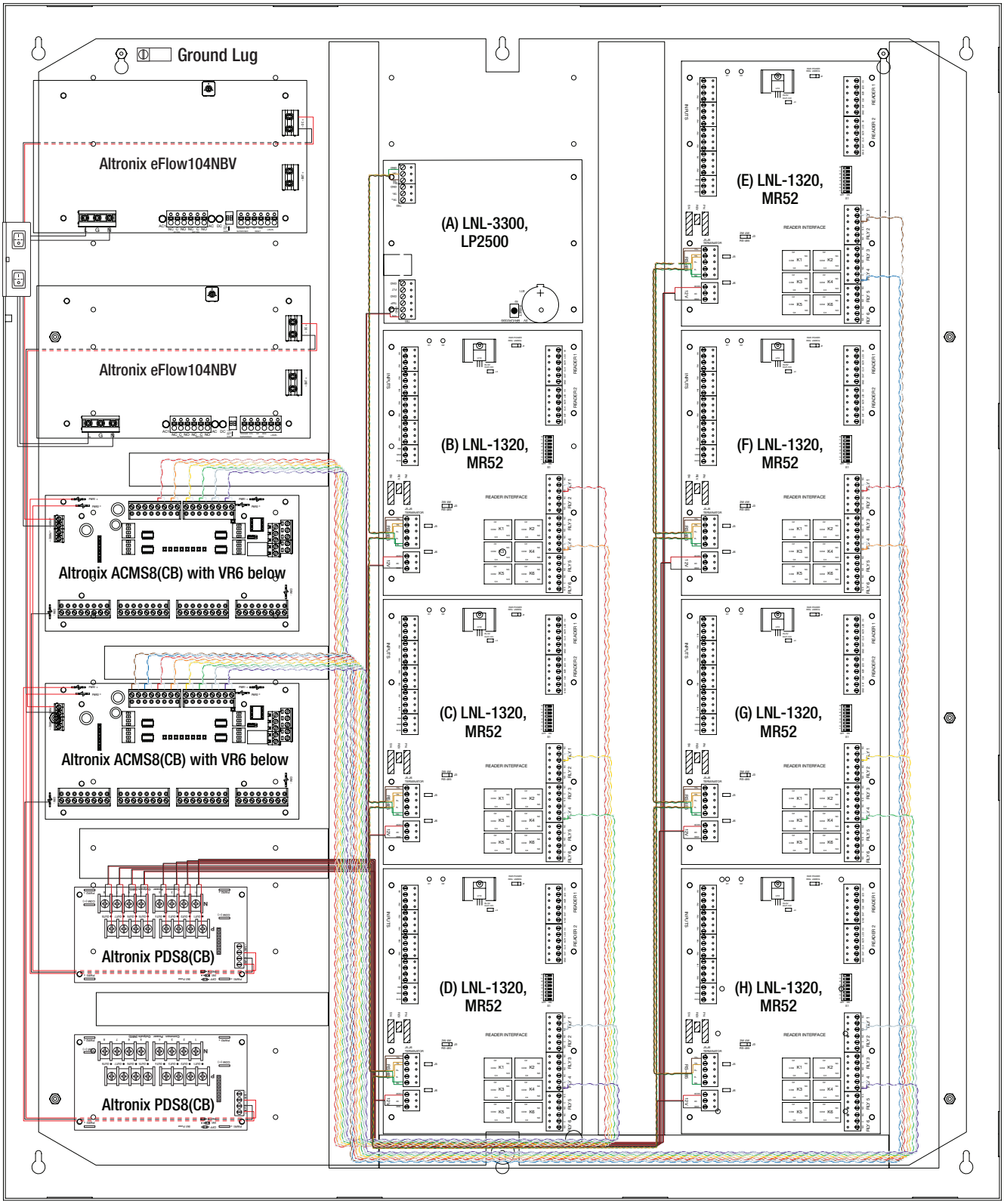
T3M77XK2V (T3M77XK2DV) Configuration:

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



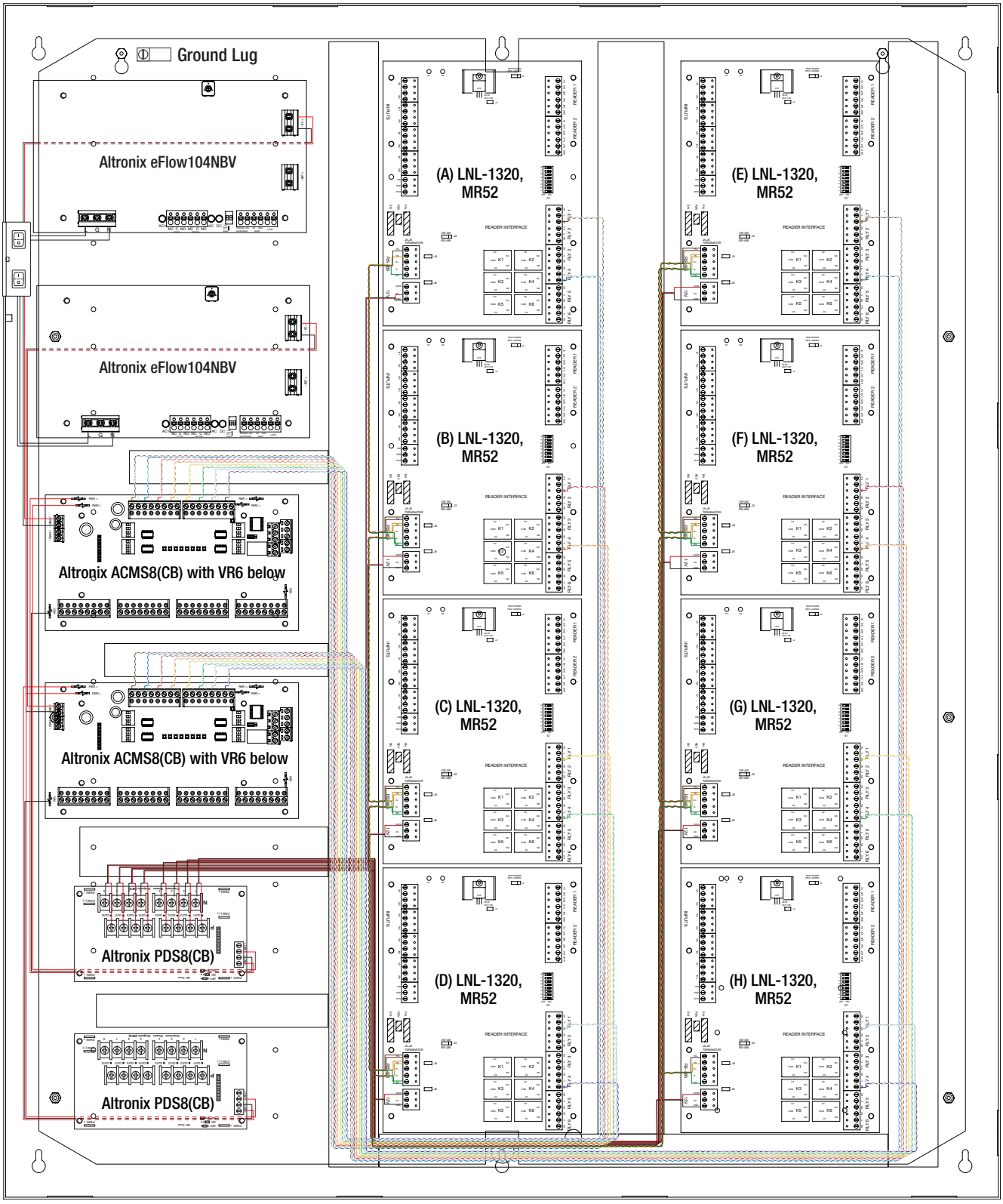
T3M77XK3V (T3M77XK3DV) Configuration:

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.

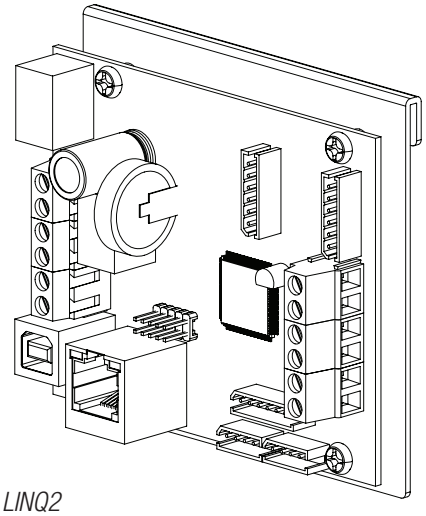
Access Controller Position Chart for the Following Models:

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

Fig. 4



eFlow Power Supply/Chargers can be Controlled and Monitored while Reporting Power/Diagnostics from Anywhere over the Network...



LINQ2

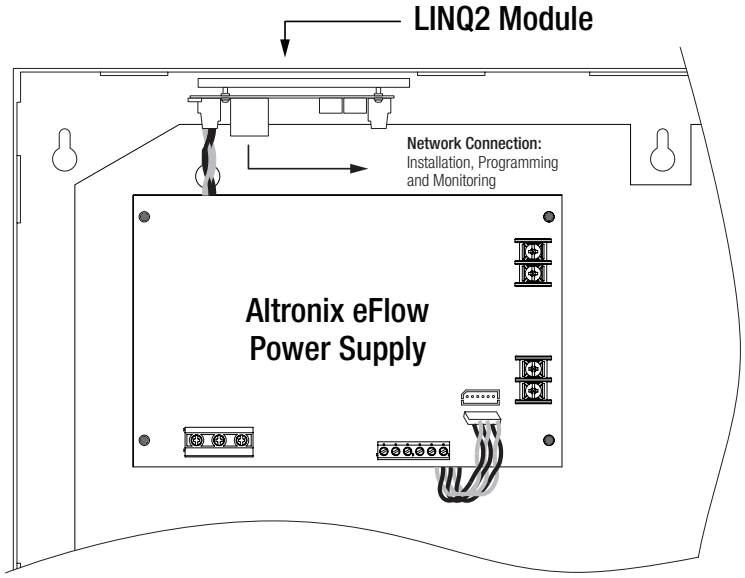
LINQ2 - Network Communication Module

LINQ2 provides remote IP access to real-time data from eFlow power supply/chargers to help keep systems up and running at optimal levels. It facilitates fast and easy installation and set-up, minimizes system downtime, and eliminates unnecessary service calls, which helps reduce Total Cost of Ownership (TCO) - as well as creating a new source of Recurring Monthly Revenue (RMR).

Features:

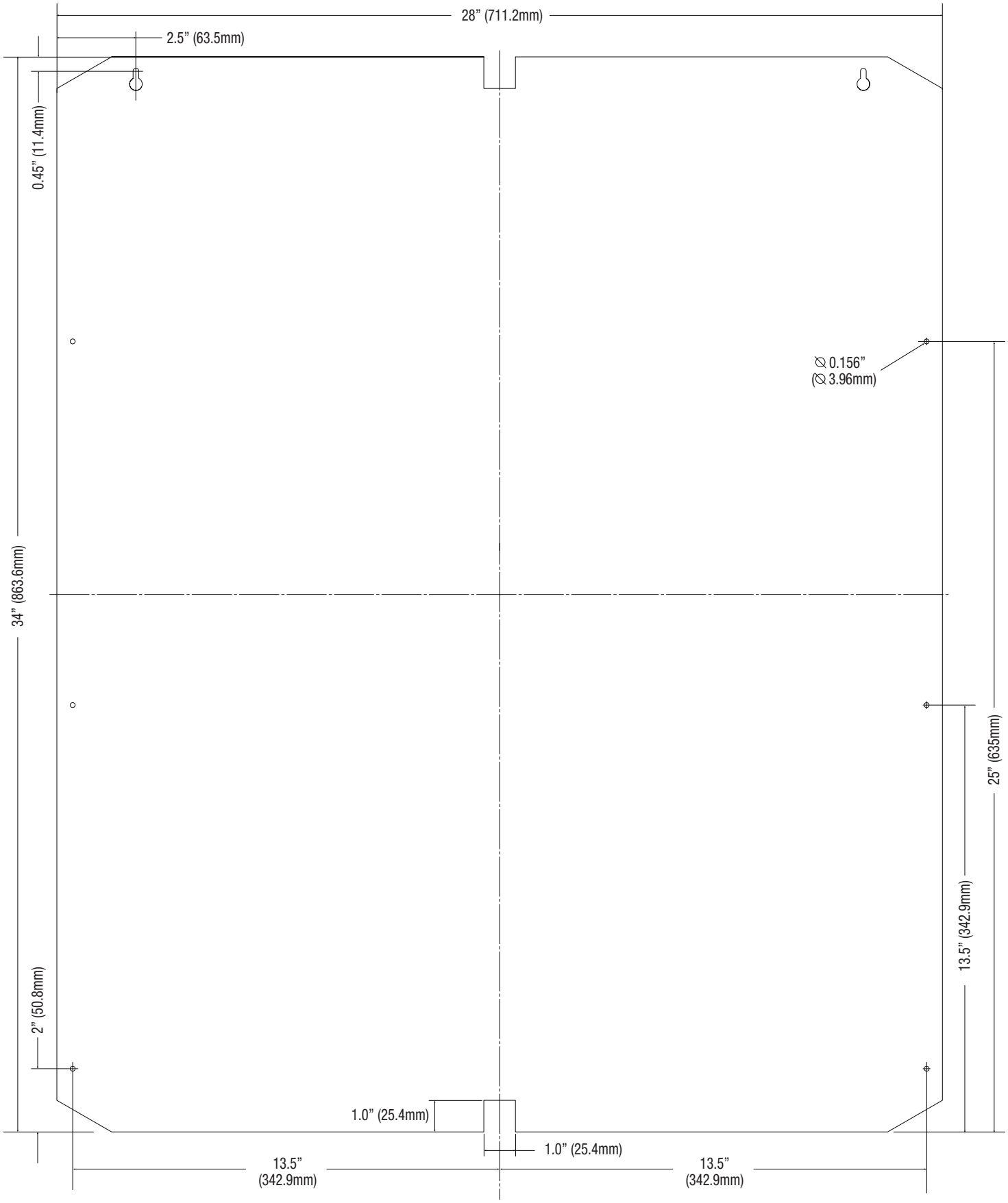
- UL Listed in the U.S. and Canada.
- Local or remote control of up to (2) two Altronix eFlow power output(s) via LAN and/or WAN.
- Monitor real time diagnostics: DC output voltage, output current, AC & battery status/service, input trigger state change, output state change and unit temperature.
- Access control and user managment: Restrict read/write, Restrict users to specific resources
- Two (2) integral network controlled Form “C” Relays.
- Three (3) programmable input triggers: Control relays and power supplies via external hardware sources.
- Email and Windows Dashboard notifications
- Event log tracks history.
- Secure Socket Layer (SSL).
- Programmable via USB or web browser - includes operating software and 6 ft. USB cable.

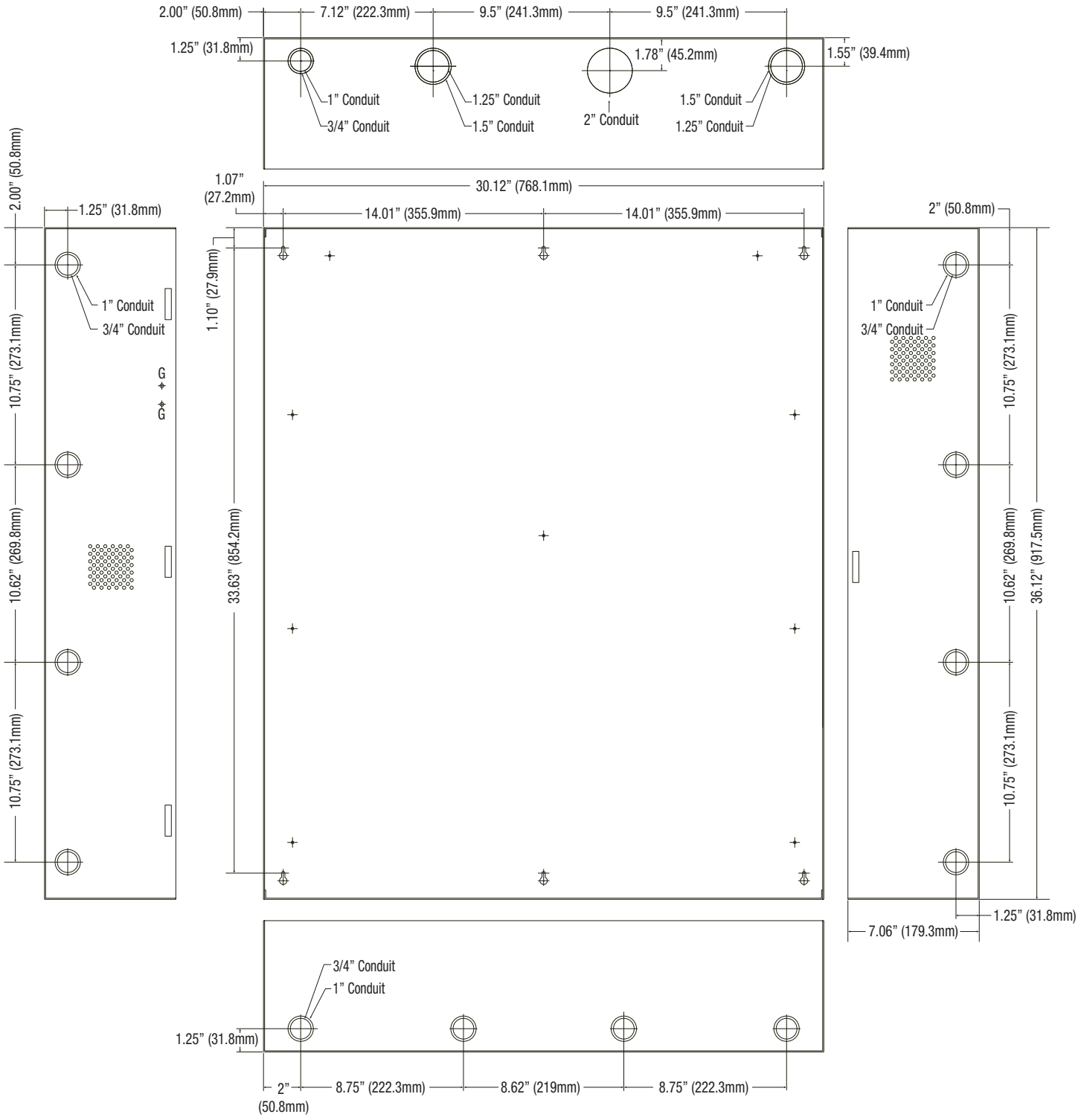
LINQ2 Mounts Inside any Trove Enclosure



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)