TROVE™ PLUS

Access & Power Integration

Altronix/Mercury Wired Kits

Models Include:

T3M7724XK1

24 Door Kit with Fused Outputs

Accommodates one (1) Intelligent Dual Reader Controller and eleven (11) Dual Reader Interface Modules.

Fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury backplane and TMV2 Mercury door backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- Two (2) ACMS12 - Dual Input/Output Fuse Protected Access Power Controllers
- Two (2) PDS16 - Dual Input/Output Fuse Protected Power Distribution Modules
- Two (2) VR6 - Voltage Regulators
- One (1) Rocker Switch Bracket with Two (2) Rocker Switches
- Wire harnesses and finger duct

T3M7724XK1D

24 Door Kit with PTC Outputs

Accommodates one (1) Intelligent Dual Reader Controller and eleven (11) Dual Reader Interface Modules.

Fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury backplane and TMV2 Mercury door backplane
- Two (2) eFLow104NB - Power Supply/Chargers
- Two (2) ACMS12CB - Dual Input/Output PTC Protected Access Power Controllers
- Two (2) PDS16CB - Dual Input/Output PTC Protected Power Distribution Modules
- Two (2) VR6 - Voltage Regulators
- One (1) 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®

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Rev. T3M7724XK_061924

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/chargers and sub-assemblies, wire harnesses and finger duct.

Configuration Chart:

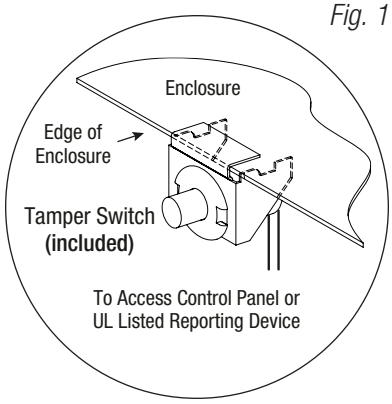
Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS12(CB) Access Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per ACMS12(CB) and PDS16(CB) Output (A)	ACMS12(CB) Board Input Fuse (PTC) Rating	ACMS12(CB) Board Output Fuse (PTC) Rating	PDS16(CB) Board Input Fuse (PTC) Rating	PDS16(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)							
T3M7724XK1	9	6.3A/ 250V	15A/ 32V	20.17-26.4	20.28-26.4	20.17-26.4	20.28-26.4	24VDC @ 9.4A	24	2.5	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T3M7724XK1D										2.0	9A	2.5A	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 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.

Fig. 1



5. Measure voltage before connecting devices. This helps avoiding potential damage.
6. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow104NB and corresponding *Sub-Assembly Installation Guides* for PDS16(CB), VR6 and ACMS12(CB) for further installation instructions.
7. Position Lenel/Mercury access controller modules over corresponding spacers and depress onto snap on spacers *(Fig. 2-4, pg. 3-5)*.
8. Connect wire harnesses to Lenel/Mercury access controller modules *(Fig. 2-3, pg. 3-4)*.
9. Mount backplane to enclosure with hardware.

Hardware:

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

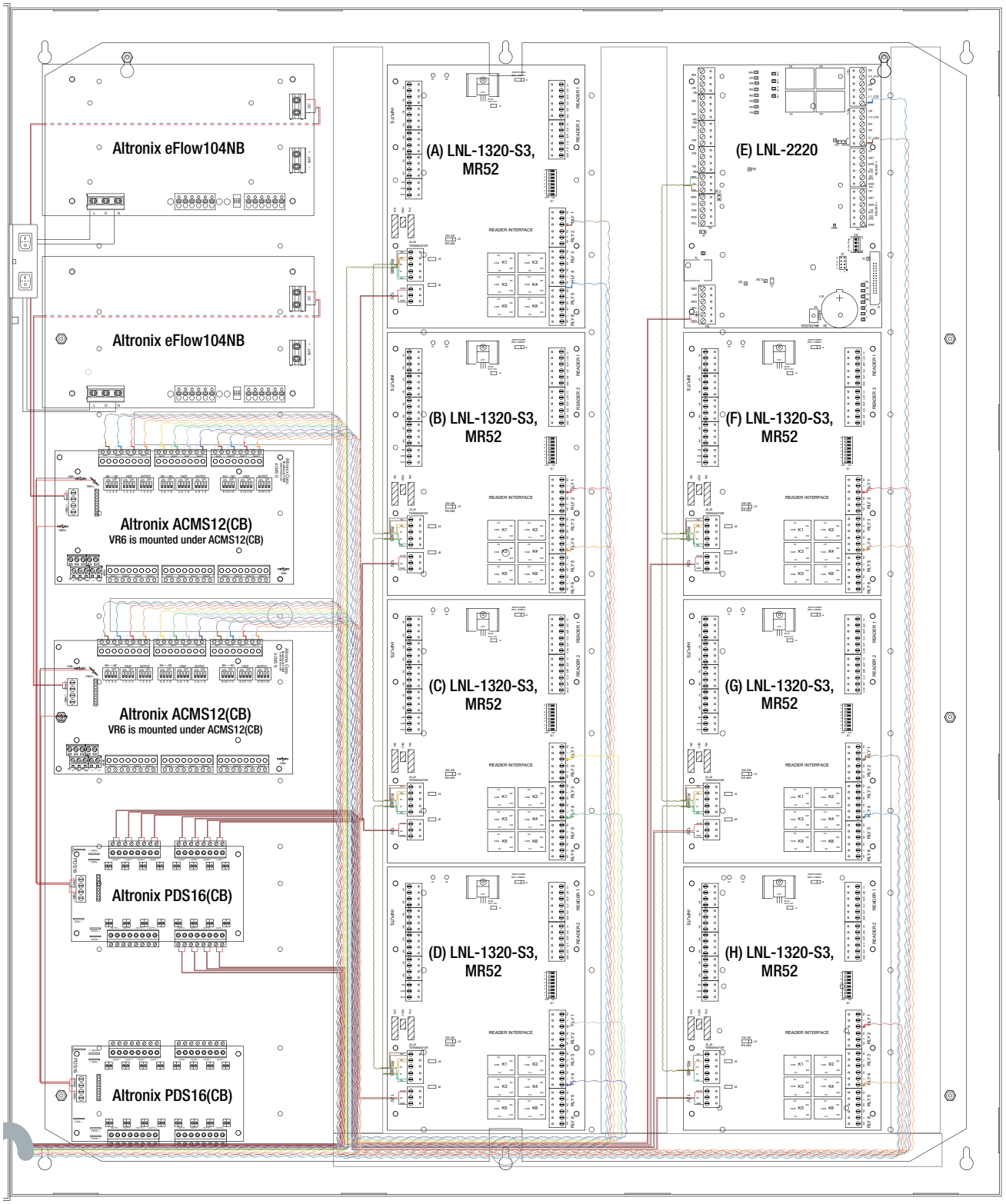
T3M7724XK1(D) Configuration:

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	(E)
LNL-1320-S3 / MR52	(A) (B) (C) (D) (F) (G) (H)

Fig. 2



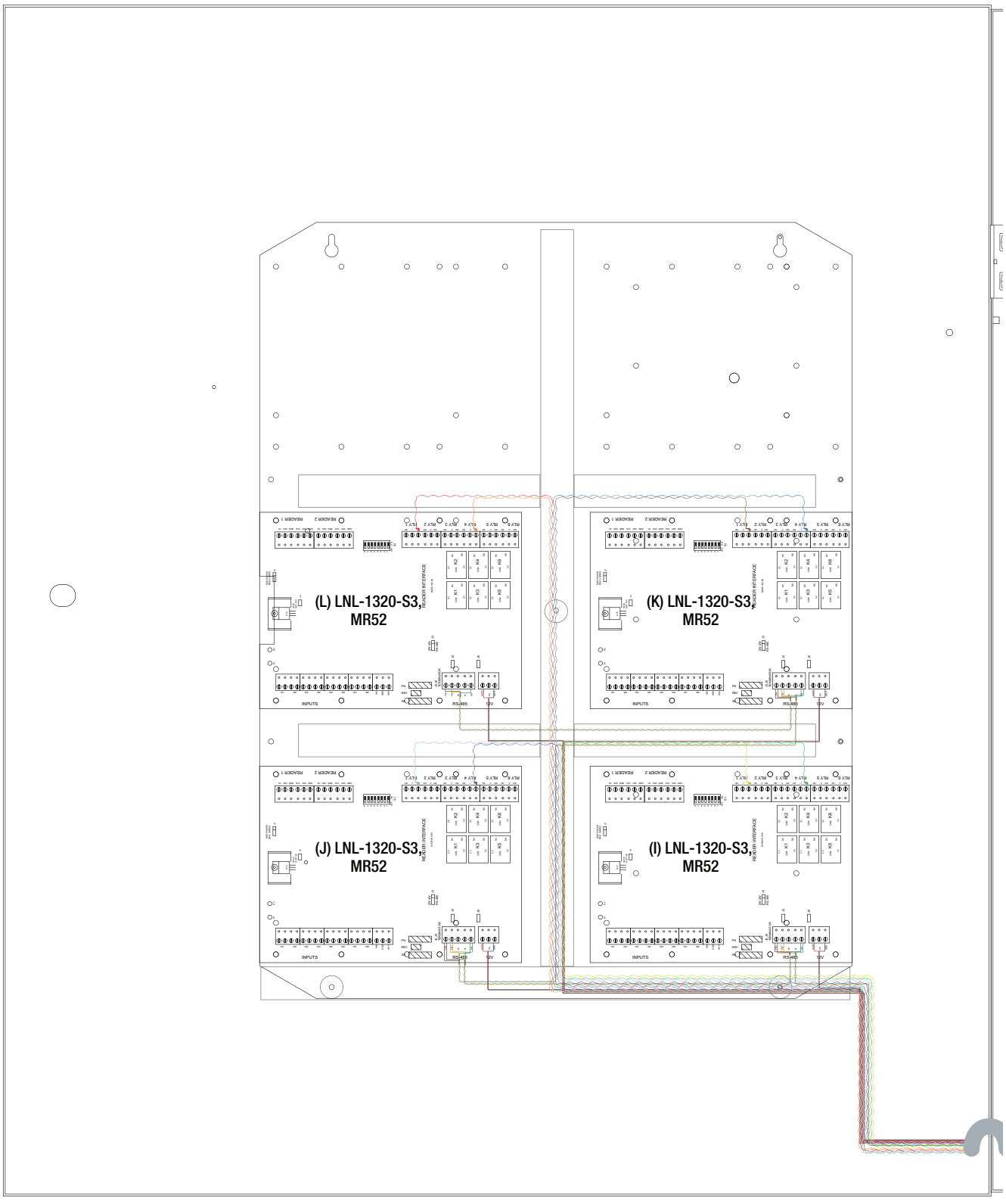
T3M7724XK1(D) Door Backplane Configuration:

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-1320-S3 / MR52	(I) (J) (K) (L)

Fig. 3



Notes:

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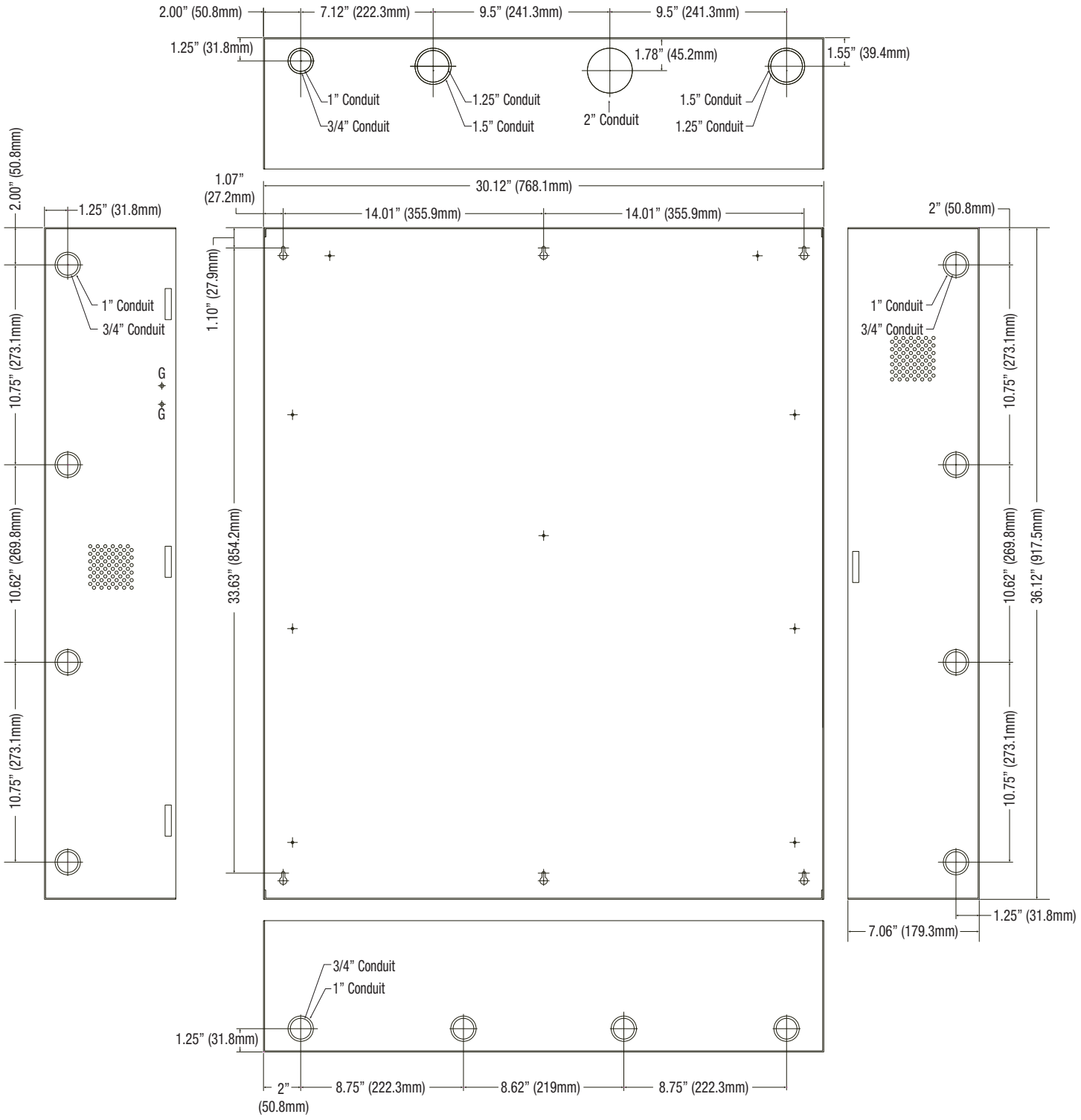
Trove3 Enclosure Dimensions (H x W x D approximate)**:**

36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)