TROVE™

Access & Power Integration

# Altronix/LenelS2 NetBox Platform Kits

## Models Include:

### T2SSK7F8V

8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TSS2 Altronix/LenelS2 NetBox Platform backplane
- One (1) eFlow104NBV - Power Supply/Charger
- One (1) ACM8 - Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module
- One (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch

### T2SSK7F8DV

8 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with TSS2 Altronix/LenelS2 NetBox Platform backplane
- One (1) eFlow104NBV - Power Supply/Charger
- One (1) ACM8CB - PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module
- One (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch

### T2SSK75F14V

14 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TSS2 Altronix/LenelS2 NetBox Platform backplane
- One (1) eFlow104NBV - Power Supply/Charger
- One (1) eFlow102NBV - Power Supply/Charger
- Two (2) ACM8 - Fused Access Power Controllers
- Two (2) PD8UL - Fused Power Distribution Modules
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches

### T2SSK75F14DV

14 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with TSS2 Altronix/LenelS2 NetBox Platform backplane
- One (1) eFlow104NBV - Power Supply/Charger
- One (1) eFlow102NBV - Power Supply/Charger
- Two (2) ACM8CB - PTC Access Power Controllers
- Two (2) PD8ULCB - PTC Power Distribution Modules
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches

### T3SSK75F28V

28 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove3 enclosure with TSS3 Altronix/LenelS2 NetBox Platform backplane
- One (1) eFlow104NBV - Power Supply/Charger
- One (1) eFlow102NBV - Power Supply/Charger
- Three (3) ACM8 - Fused Access Power Controllers
- One (1) ACM4 - Fused Access Power Controller
- Two (2) PD16W - Fused Power Distribution Modules
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches

### T3SSK75F28DV

28 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove3 enclosure with TSS3 Altronix/LenelS2 NetBox Platform backplane
- One (1) eFlow104NBV - Power Supply/Charger
- One (1) eFlow102NBV - Power Supply/Charger
- Three (3) ACM8CB - PTC Access Power Controllers
- One (1) ACM4CB - PTC Access Power Controller
- Two (2) PD16WCB - PTC Power Distribution Modules
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches

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

# Installation Guide

CE

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**Rev. TSSV_022624**

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

## Overview:

Altronix Trove S2 kits are pre-assembled and consist of Trove enclosures/backplanes with factory installed Altronix power supply/chargers and sub-assemblies. Kits accommodate LenelS2 NetBox Platform S2-INST Installation Kit(s) for S2 Network Node for up to eight (8) (T2SSK7F8(D)V), fourteen (14) (T2SSK75F14(D)V) or twenty-eight (28) (T3SSK75F28(D)V) doors in a single enclosure.

## Configuration Chart:

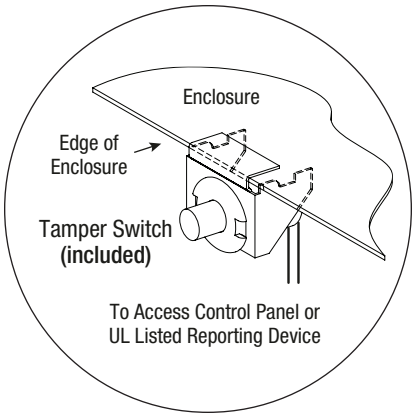
| Altronix Model Number | 220VAC 60Hz Input Current (A) | Power Supply Board Input Fuse Rating | Power Supply Board Battery Fuse Rating | Nominal DC Output Voltage | | | | Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM8(CB) Access Power Controllers' outputs | Fail-Safe/Fail-Secure Outputs | Additional Fused (PTC) Outputs | ACM8(CB) Board Input Fuse Rating | ACM8(CB) Board Output Fuse (PTC) Rating | ACM4(CB) Board Input Fuse Rating | ACM4(CB) Board Output Fuse (PTC) Rating | PDS8(CB) Board Input Fuse (PTC) Rating | PDS8(CB) Board Output Fuse (PTC) Rating | PD8UL(CB) Board Output Fuse (PTC) Rating | PD16W(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) | | | | | | | | | | | |
| **T2SSK7F8V** | 2.5 | eFlow104NBV 6.3A/250V | 15A/ 32V | 20.17-26.4 | 20.28-26.4 | – | – | 24VDC @ 9.7A | 8 | 8 | 10A/ 250V | 3.5A/ 250V | – | – | 10A/ 32V | 3A/ 32V | – | – |
| **T2SSK7F8DV** | | eFlow102NBV 5A/250V | | | | | | | | | | 2.5A | | – | 9A | 2.5A | – | – |
| **T2SSK75F14V** | 4.6 | eFlow104NBV 6.3A/250V | 15A/ 32V | 20.17-26.4 | 20.28-26.4 | 9.7-13.2 | 10.03-13.2 | 24VDC @ 9.4A | 16 | 16 | 10A/ 250V | 3.5A/ 250V | – | – | – | – | – | 3.5A/ 250V | – |
| **T2SSK75F14DV** | | eFlow102NBV 5A/250V | | | | | | | | | | 2.5A | | – | – | – | – | 2.5A | – |
| **T3SSK75F28V** | 4.6 | eFlow104NBV 6.3A/250V | 15A/ 32V | 20.17-26.4 | 20.28-26.4 | 9.7-13.2 | 10.03-13.2 | 24VDC @ 9.4A | 28 | 32 | 10A/ 250V | 3.5A/ 250V | 10A/ 32V | 3A/ 32V | – | – | – | 3.5A/ 250V |
| **T3SSK75F28DV** | | eFlow102NBV 5A/250V | | | | | | | | | | 2.5A | | 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 two/three keyholes in the enclosure. Install two/three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two/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 two/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.

*Fig. 1*




4. Connect unswitched AC power (220VAC 60Hz) to RSB. 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 S2-INST Installation Kit to backplane, refer to *pages 3, 4*.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow104NBV, eFlow102NBV and corresponding *Sub-Assembly Installation Guides* for ACM8(CB), PDS8(CB), VR6, PD8UL(CB) and PD16W(CB) for further installation instructions.

**Hardware:** Lock Nut

## T2SSK7F8(D)V: Access Controller Position Chart for the S2-INST Installation Kit:

1. Align S2-INST mounting holes with pems on TSS2 *(Fig. 2, pg. 3)*.
2. Attach S2-INST to backplane with lock nuts (provided) *(Fig. 2a, pg. 3)*.
3. Mount backplane to enclosure with hardware.
4. Fasten TSS2 backplane to Trove2 enclosure utilizing hardware (provided).

*Fig. 2*

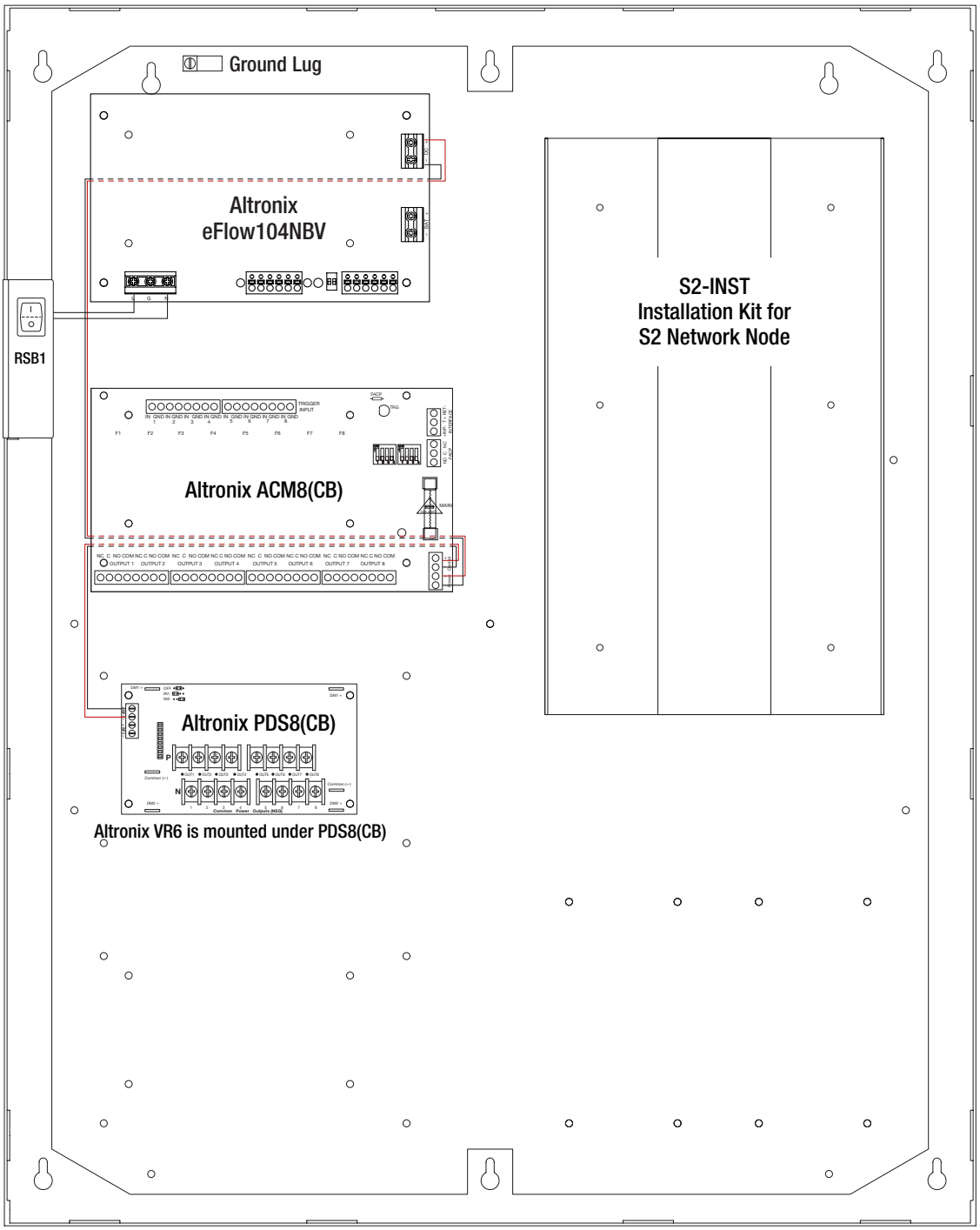
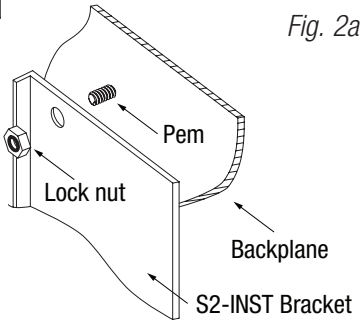



*Fig. 2a*



## T2SSK75F14(D)V: Access Controller Position Chart for the S2-INST Installation Kit:

1. Align S2-INST mounting holes with pems on TSS2 *(Fig. 3, pg. 4)*.
2. Attach S2-INST to backplane with lock nuts (provided) *(Fig. 3a, pg. 4)*.
3. Mount backplane to enclosure with hardware.
4. Fasten TSS2 backplane to Trove2 enclosure utilizing hardware (provided).

*Fig. 3*

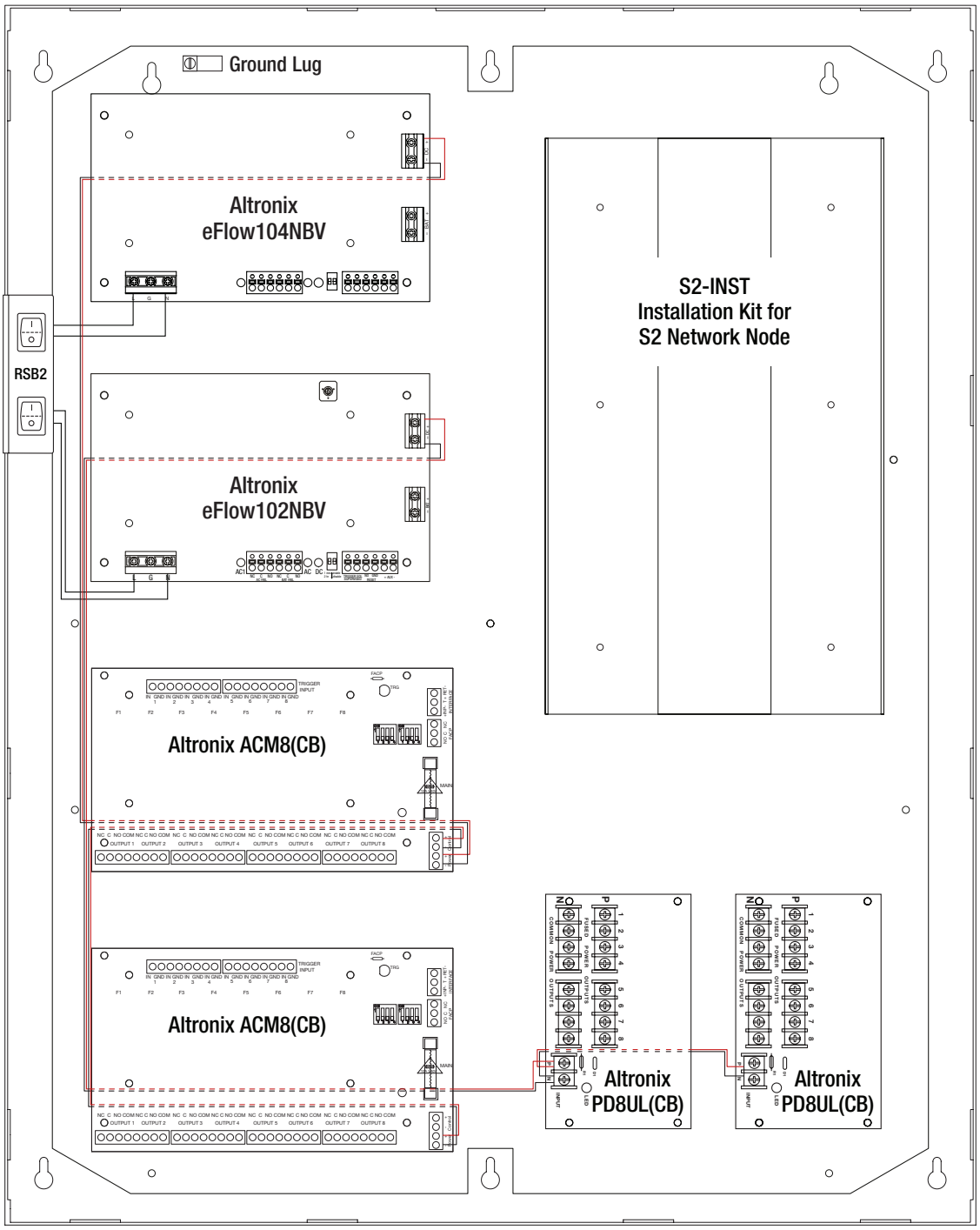
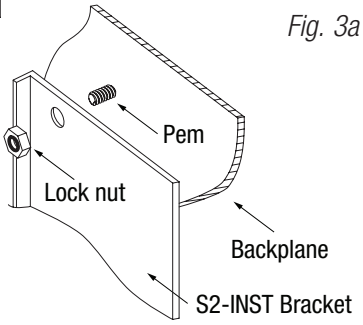



*Fig. 3a*



## T3SSK75F28(D)V: Access Controller Position Chart for the S2-INST Installation Kit:

1. Align S2-INST mounting holes with pems on TSS3 *(Fig. 4, pg. 5)*.
2. Attach S2-INST to backplane with lock nuts (provided) *(Fig. 4a, pg. 5)*.
3. Mount backplane to enclosure with hardware.
4. Fasten TSS3 backplane to Trove3 enclosure utilizing hardware (provided).

*Fig. 4*

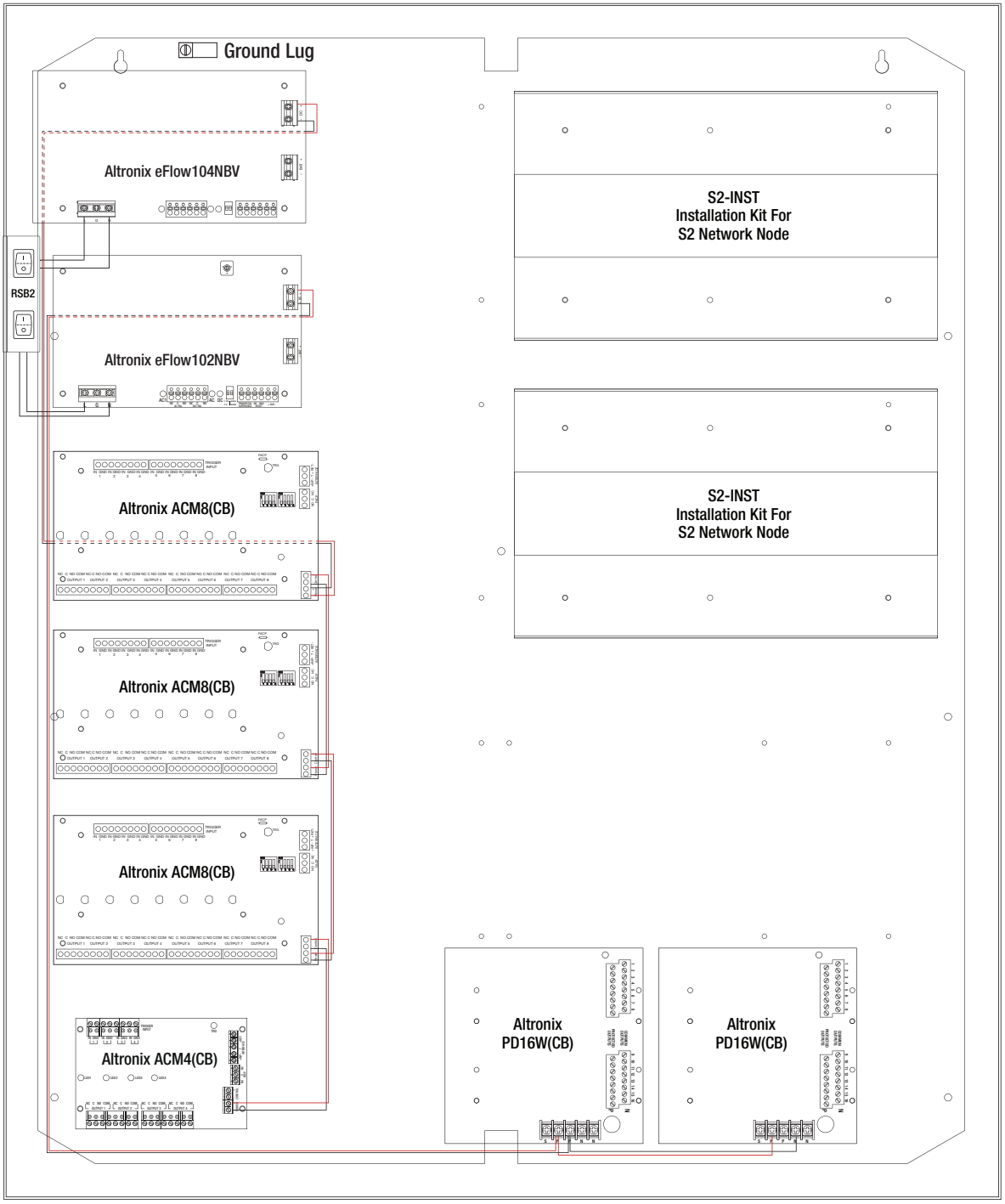
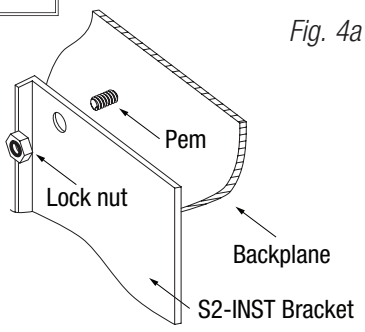
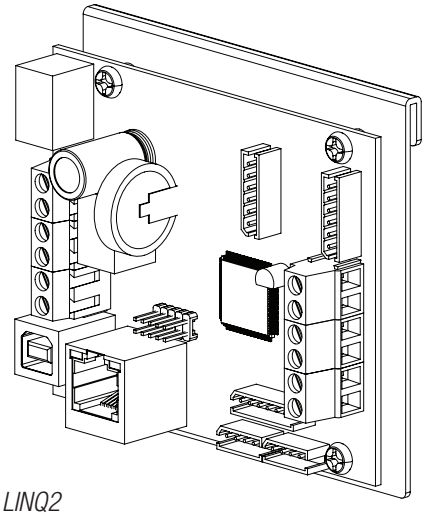



*Fig. 4a*



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



*LINQ2*

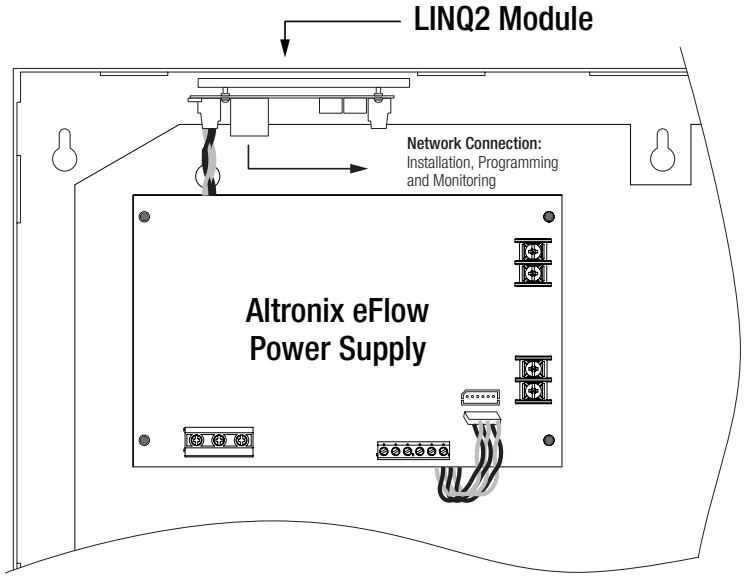
### LINQ2 - Network Communication Module

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:

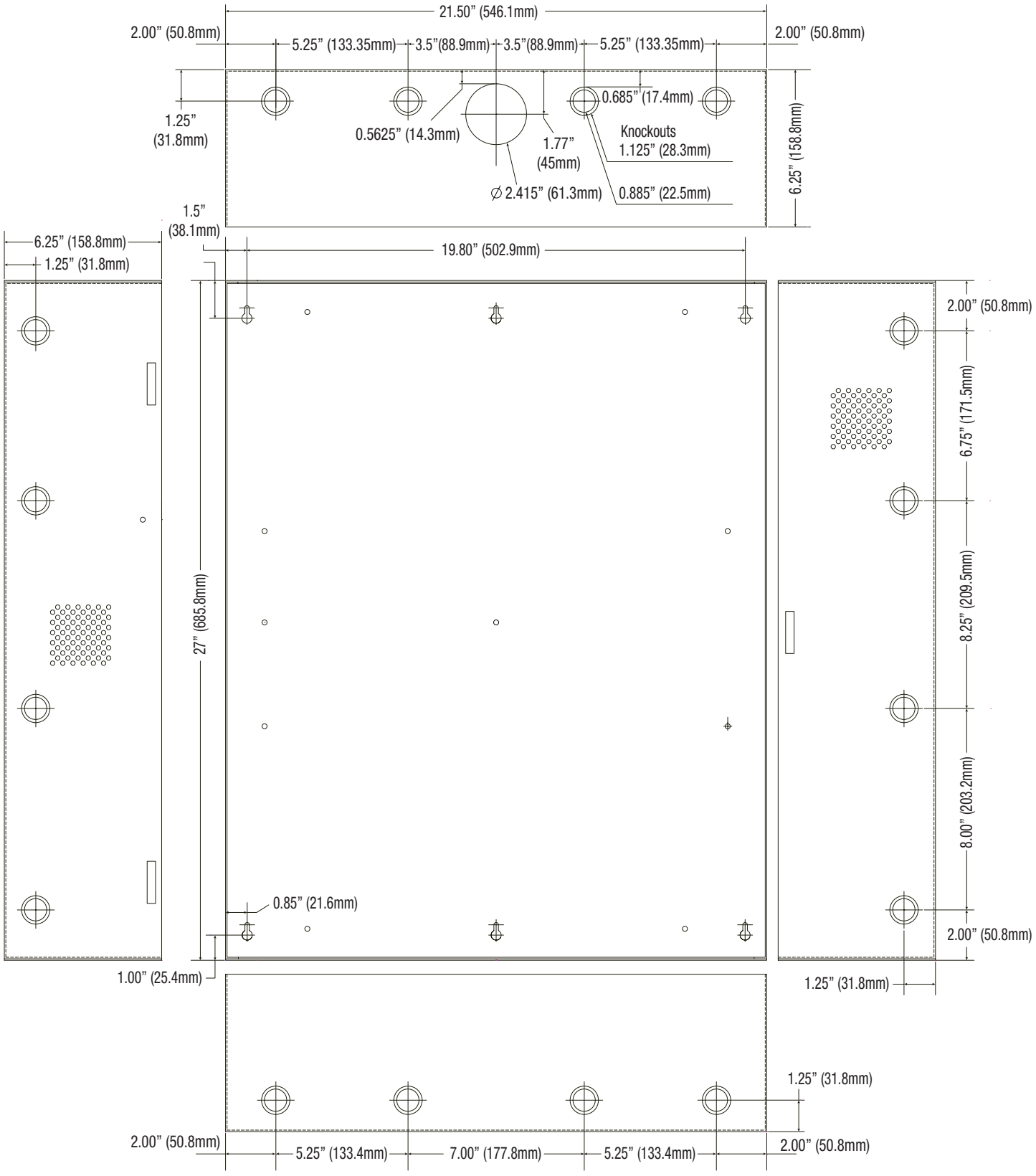
- UL Listed in the U.S. and Canada.
- Local or remote control of up to (2) two Altronix eFlow power output(s) via LAN and/or WAN.
- Monitor real time diagnostics: DC output voltage, output current, AC & battery status/service, input trigger state change, output state change and unit temperature.
- Access 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.

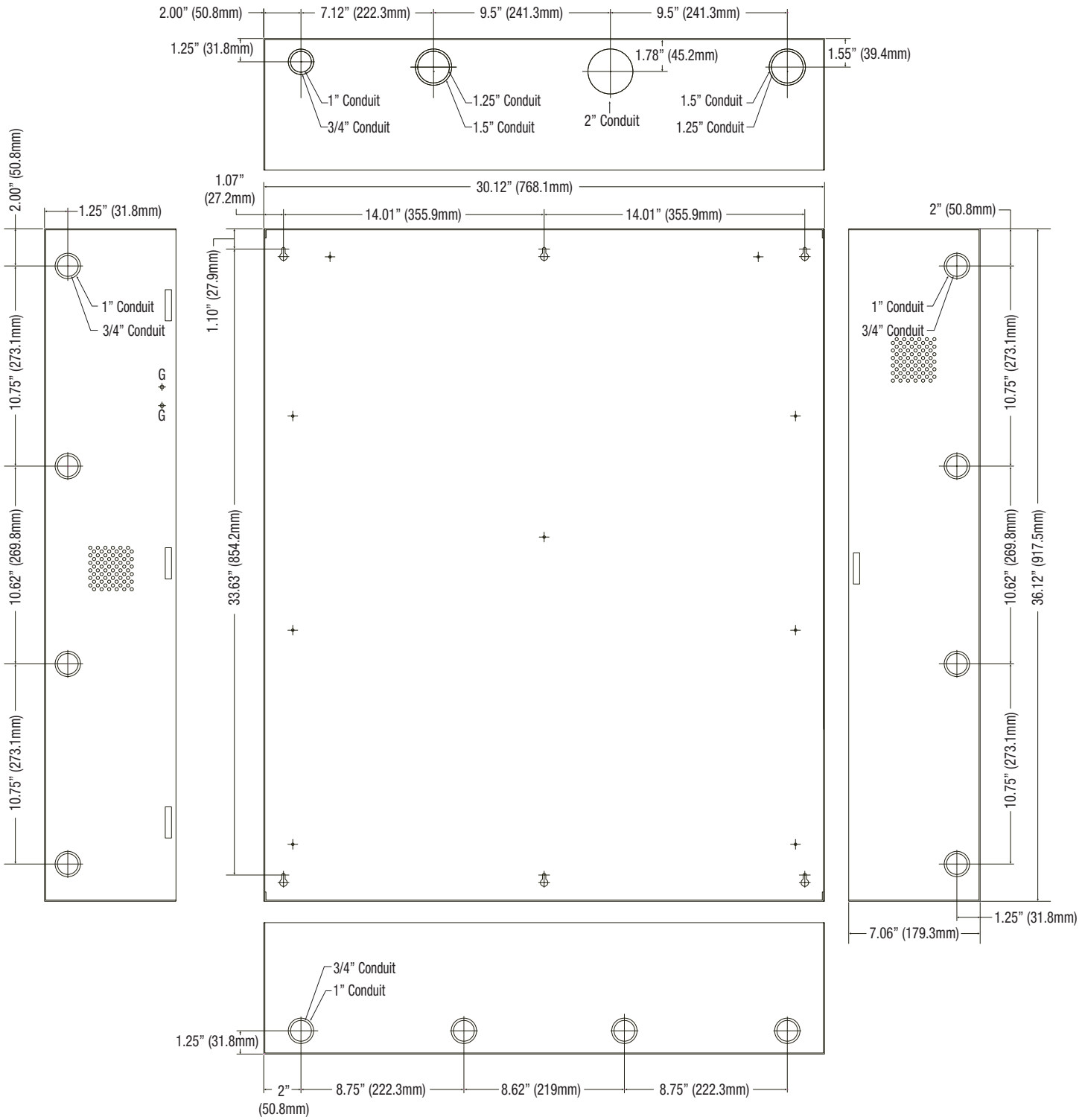
## LINQ2 Mounts Inside any Trove Enclosure



## T2SSK7F8(D)V and T2SSK75F14(D)V Enclosure Dimensions (H x W x D):

27.25” x 21.75” x 6.5” (692.2mm x 552.5mm x 165.1mm)



## **T3SSK75F28(D)V Enclosure Dimensions** (H x W x D approximate)**:**

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