

Access & Power Integration

T1HCK3F

Up to 8 Door Kit

Fully assembled kit includes:

- Trove1 enclosure with THC1 Altronix/Hartmann Controls backplane
- One (1) eFlow6NB - Power Supply/Charger

T1HCK3F4

Up to 8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove1 enclosure with THC1 Altronix/Hartmann Controls backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) ACM4 - Fused Access Power Controller

All components of these Trove kits are UL Listed sub-assemblies.

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

Installation Guide

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Rev. T1HC052820

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____




Overview:

Altronix/Hartmann Controls Trove kits are pre-assembled and consist of Trove enclosure with factory installed Altronix power supply/chargers and sub-assemblies. Each kit also accommodates one (1) Hartmann Controls PRS_Master boards and up to four (4) PRS_TDM or PRS_I08 boards.

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 Options				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4 Access Power Controller's outputs (A)	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per ACM4 Output (A)	ACM4 Board Input Fuse Rating	ACM4 Board Output Fuse Rating
				[DC]		[AUX]						
				12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)					
T1HCK3F	3.5	5A/ 250V	15A/ 32V	eFlow6NB				12 or 24VDC @ 6A	-	-	-	-
				10.0- 13.2	20.19- 26.4	10.03- 13.2	20.19- 26.4					
T1HCK3F4	3.5	5A/ 250V	15A/ 32V	eFlow6NB				12VDC @ 5.4A or 24VDC @ 5.7A	4	2.5	10A/ 32V	3A/ 32V
				10.0- 13.2	20.19- 26.4	10.03- 13.2	20.19- 26.4					

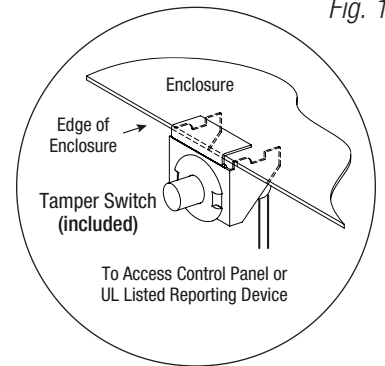
Hardware and Accessories:

 Nylon or Metal Spacer |
  5/16" Pan Head Screw |
  Lock Nut

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 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.
4. Mount Hartmann Controls boards to backplane, *refer to pages 3-4*.
5. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow6NB and *Sub-Assembly Installation Guide* for ACM4 for further installation instructions.



T1HCK3F: Configuration of Hartmann Controls Boards:

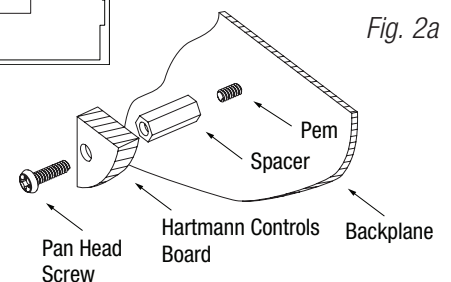
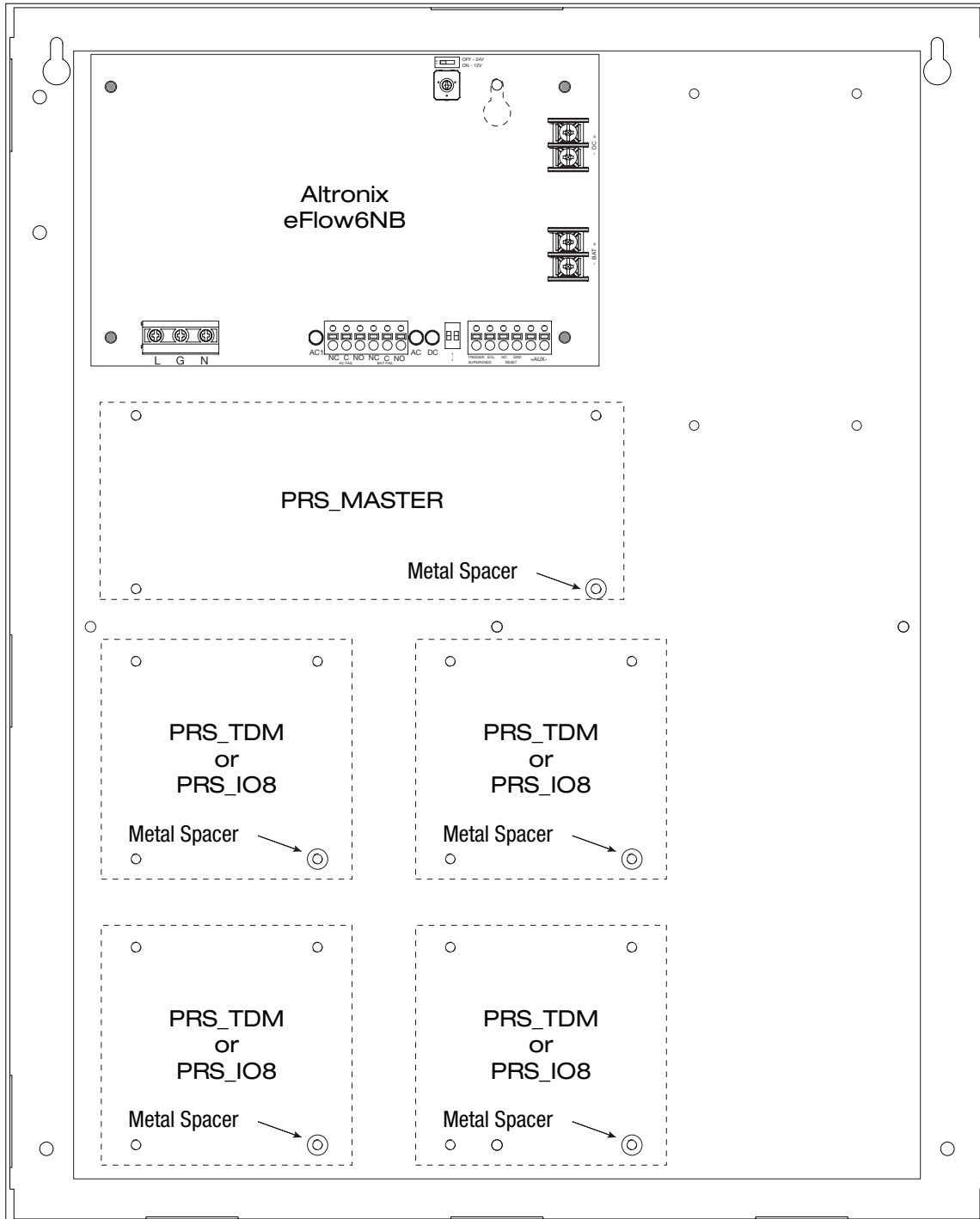
1. Align the Hartmann Controls boards on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten spacers (provided) to pems that match the hole pattern for Hartmann Control boards (*Fig. 2, 2a, pg. 3*).

Note: Hartmann Controls boards must be properly grounded.

Please use provided metal spacers for the lower right mounting holes (*Fig. 2, pg. 3*).

3. Mount Hartmann Controls boards to spacers utilizing provided 5/16" pan head screws (*Fig. 2a, pg. 3*).
4. Fasten backplane to Trove1 enclosure utilizing lock nuts (provided).

Fig. 2 - T1HCK3F Configurations



T1HCK3F4: Configuration of Hartmann Controls Boards:

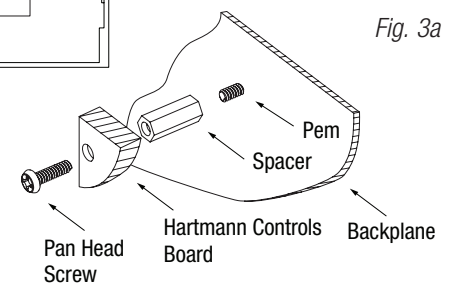
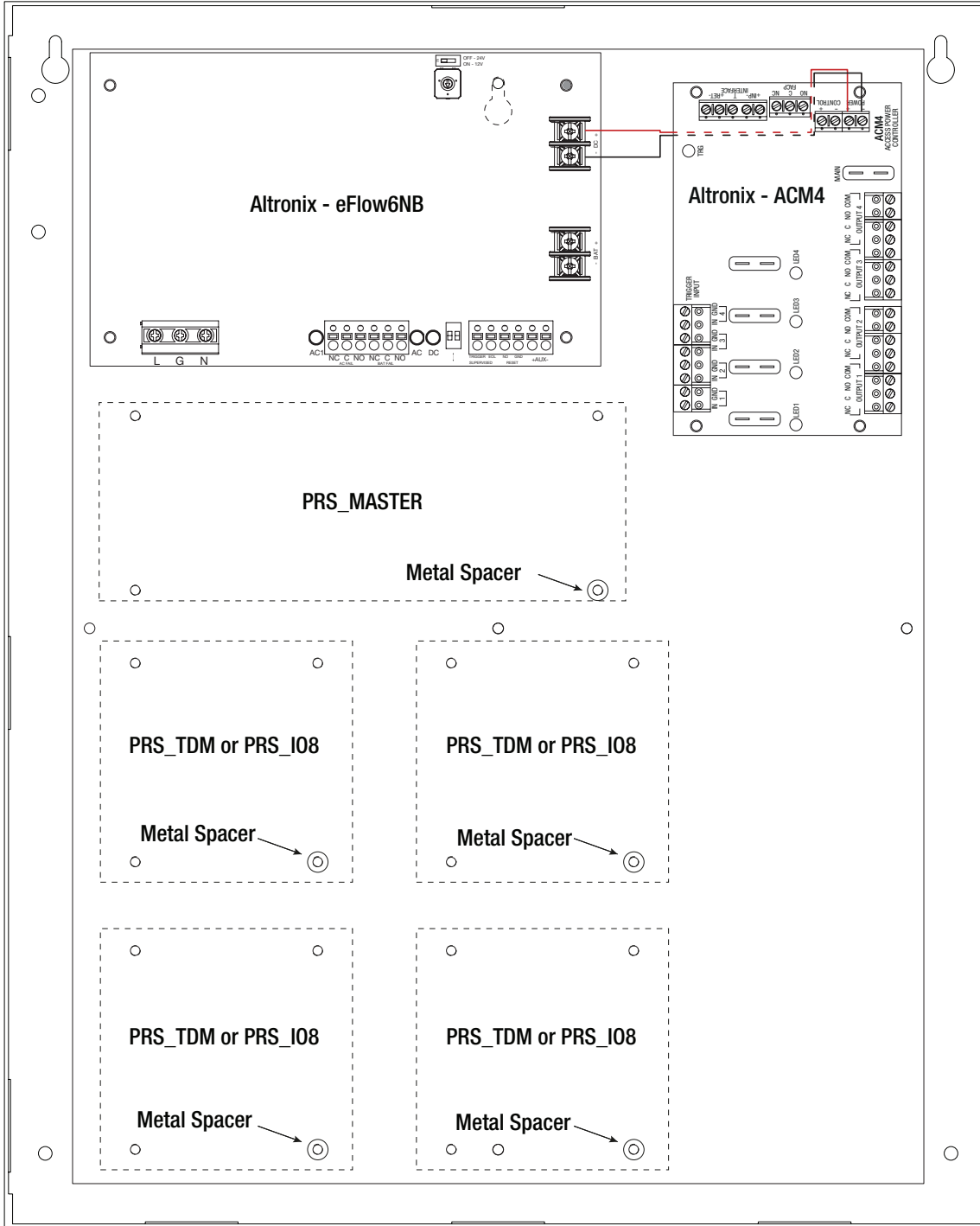
1. Align the Hartmann Controls boards on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten spacers (provided) to pems that match the hole pattern for Hartmann Control boards (*Fig. 3, 3a, pg. 4*).

Note: Hartmann Controls boards must be properly grounded.

Please use provided metal spacers for the lower right mounting holes (*Fig. 3, pg. 4*).

3. Mount Hartmann Controls boards to spacers utilizing provided 5/16" pan head screws (*Fig. 3a, pg. 4*).
4. Fasten backplane to Trove1 enclosure utilizing lock nuts (provided).

Fig. 3 - T1HCK3F4 Configurations



Notes:

Notes:

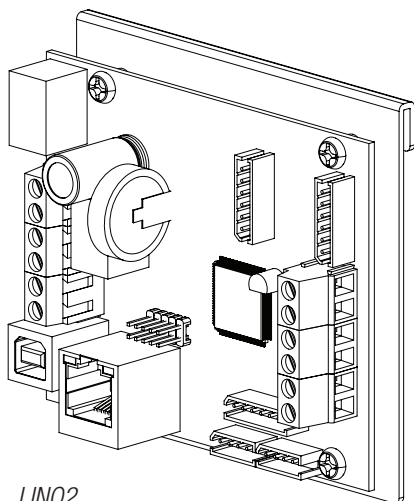


eFlow Power Supply/Chargers can be Controlled and Monitored while Reporting Power/Diagnostics from Anywhere over the Network...

LINQ™

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).

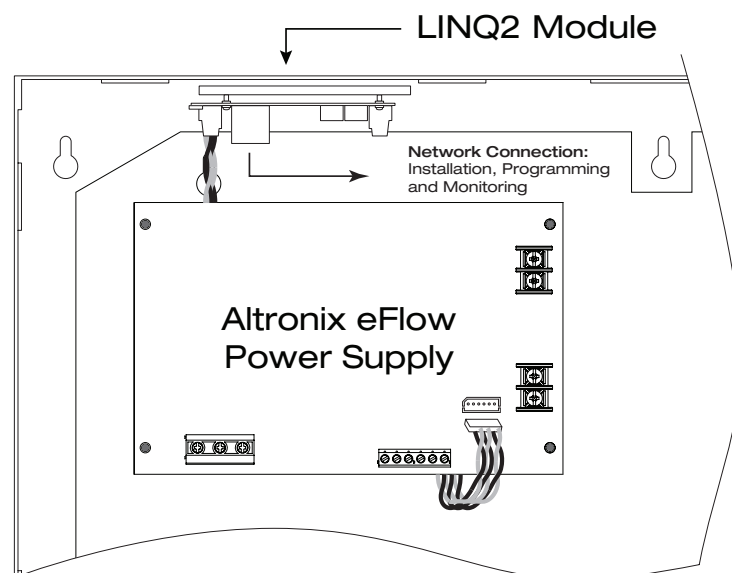


LINQ2

Features:

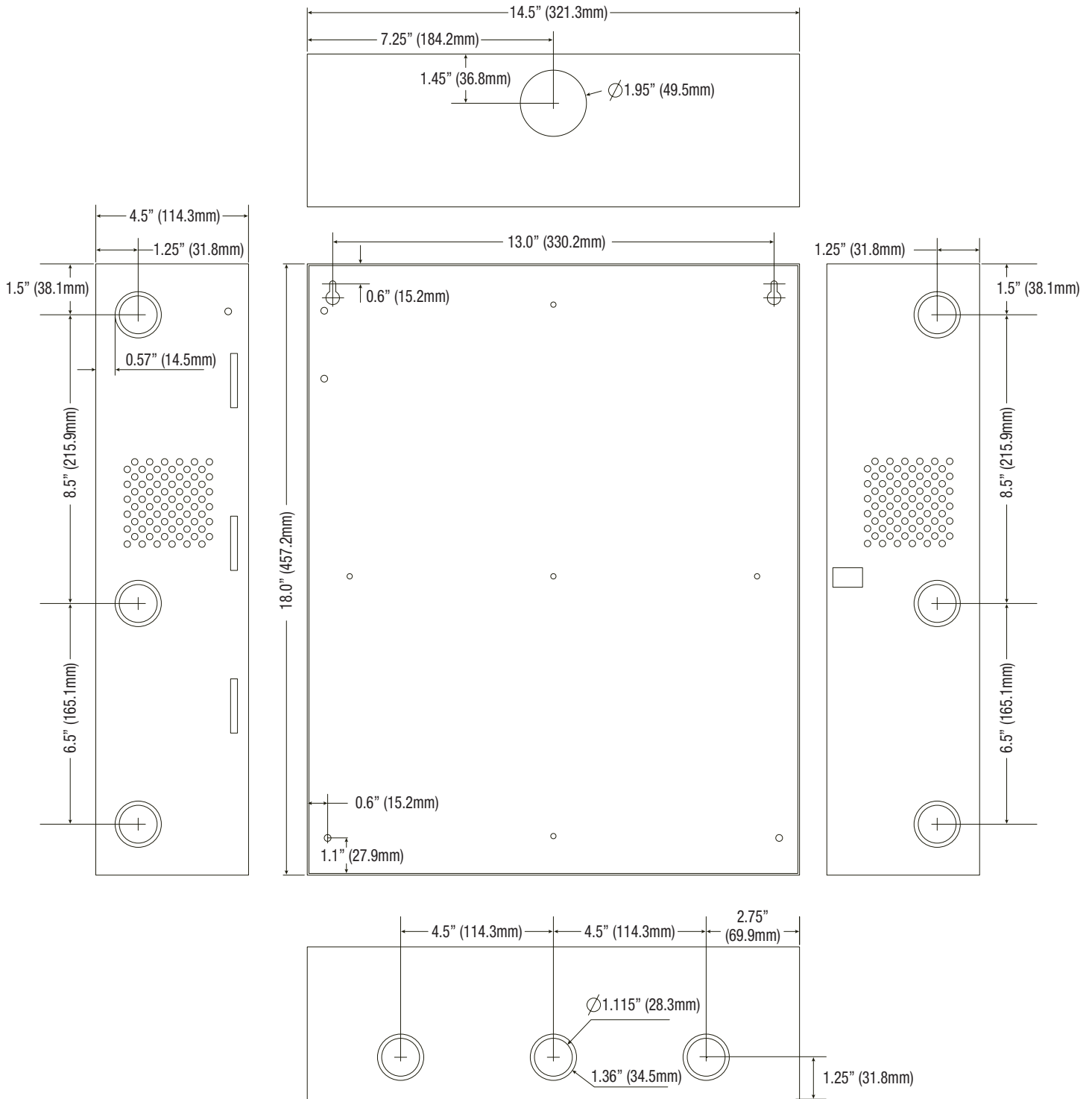
- UL Listed in the U.S. and Canada.
- Local or remote control of up to (2) two Altronix eFlow power output(s) via LAN and/or WAN.
- Monitor real time diagnostics: DC output voltage, output current, AC & battery status/service, input trigger state change, output state change and unit temperature.
- Access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



Enclosure Dimensions (H x W x D approximate):

18" x 14.5" x 4.625" (457mm x 368mm x 118mm)



Hartmann Controls is not responsible for any typographical errors.

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 IITHC1 Kit Series F11U