Manuals+ — User Manuals Simplified.

Altronix T1HCK3F4 Access and Power Integration Installation Guide

**T1HCK3F4 Access and Power Integration
Installation Guide**

Contents

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

Installation Guide

All registered trademarks are the property of their respective owners.

Rev. T1HC052820
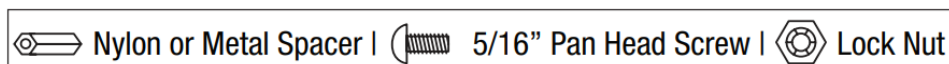Installing Company: _____ Service Rep. Name:
_____
Address: _____ Phone #:
_____

Overview:

Altronix/Hartmann Controls Trove kits are pre-assembled and consist of a Trove enclosure with factory-installed Altronix power supply/chargers and sub-assemblies. Each kit also accommodates one (1) Hartmann Controls PRS_Master board and up to four (4) PRS_TDM or PRS_IO8 boards.

Configuration Chart:

Altronix Model Number	120 VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Bc Battery Fuse Rat	Nominal DC Output Voltage Options [DC] 12VDC Output Range (V)	[DC] 24VDC Output Range (V)	[AUX] 12VDC Output Range 01)	[AUX] 24VDC Output Range (V)	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	put (A)	;M4 Board put Fuse Rating	AC M4 Board Output Fuse Rating
T1HCK3F	4.	5A/250V	15A/32V	Flow6NBe 10.0-13.2	20.19-26.4	10.03-13.2	20.19-26.4	12 or 24VDC @ 6A	—	—	—	—
T1HCK3F4	4.	5A/250V	15N 32V	eFlow6NB 10.0-13.2	20.19-26.4	10.03-13.2	20.19-26.4	12VDC @ 5.4A or 24VDC @ 5.7A	4	3.	10A/32V	3N 32V

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.
The product is intended for indoor use only.

1. Remove backplane from the 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 the 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 the tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate the alarm signal open the door of the enclosure.
4. Mount Hartmann Controls boards to the 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.

Fig. 1
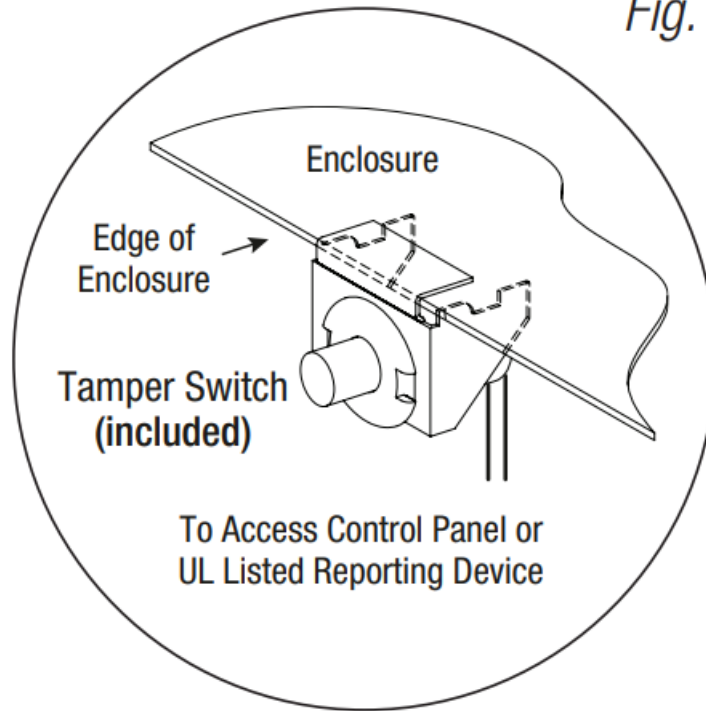
T1HCK3F: Configuration of Hartmann Controls Boards:

1. Align the Hartmann Controls boards on the backplane to match the boards' mounting holes with the corresponding poems.
2. Fasten spacers (provided) to poems 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).

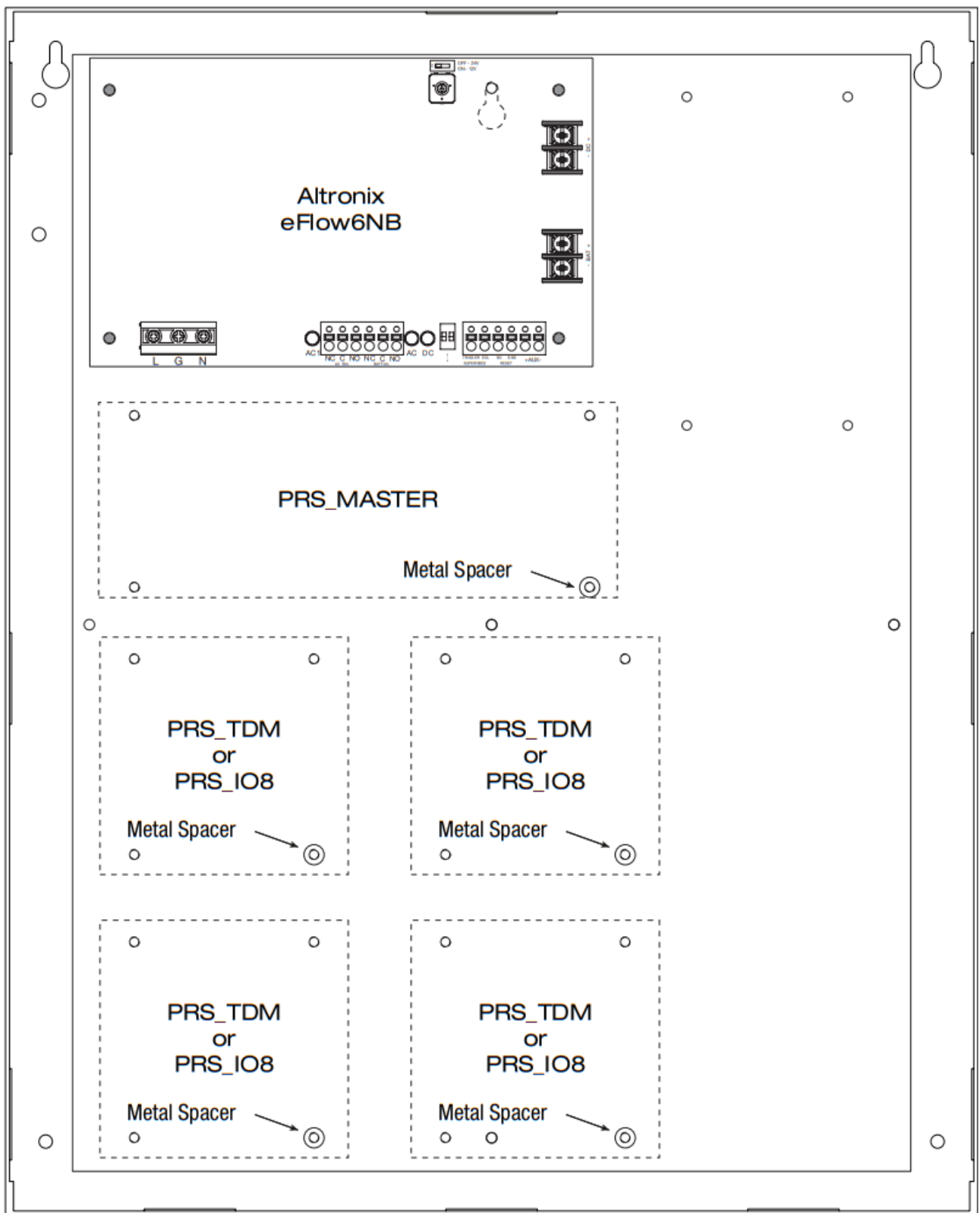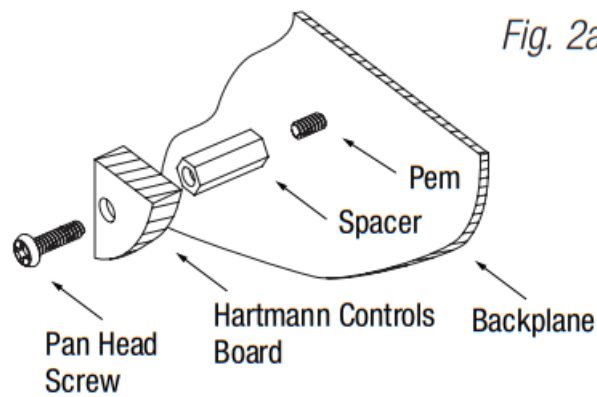**Fig. 2 – T1HCK3F Configurations**

Altronix
eFlow6NB

L G N

AC1 NC C NO NC C NO AC DC TRIGGER EOL SUPERVISE NC S/RE RESET +AUX-

PRS_MASTER

Metal Spacer

PRS_TDM
or
PRS_IO8

Metal Spacer

PRS_TDM
or
PRS_IO8

Metal Spacer

PRS_TDM
or
PRS_IO8

Metal Spacer

PRS_TDM
or
PRS_IO8

Metal Spacer

Fig. 2a

Pem

Spacer

Pan Head
Screw

Hartmann Controls
Board

Backplane

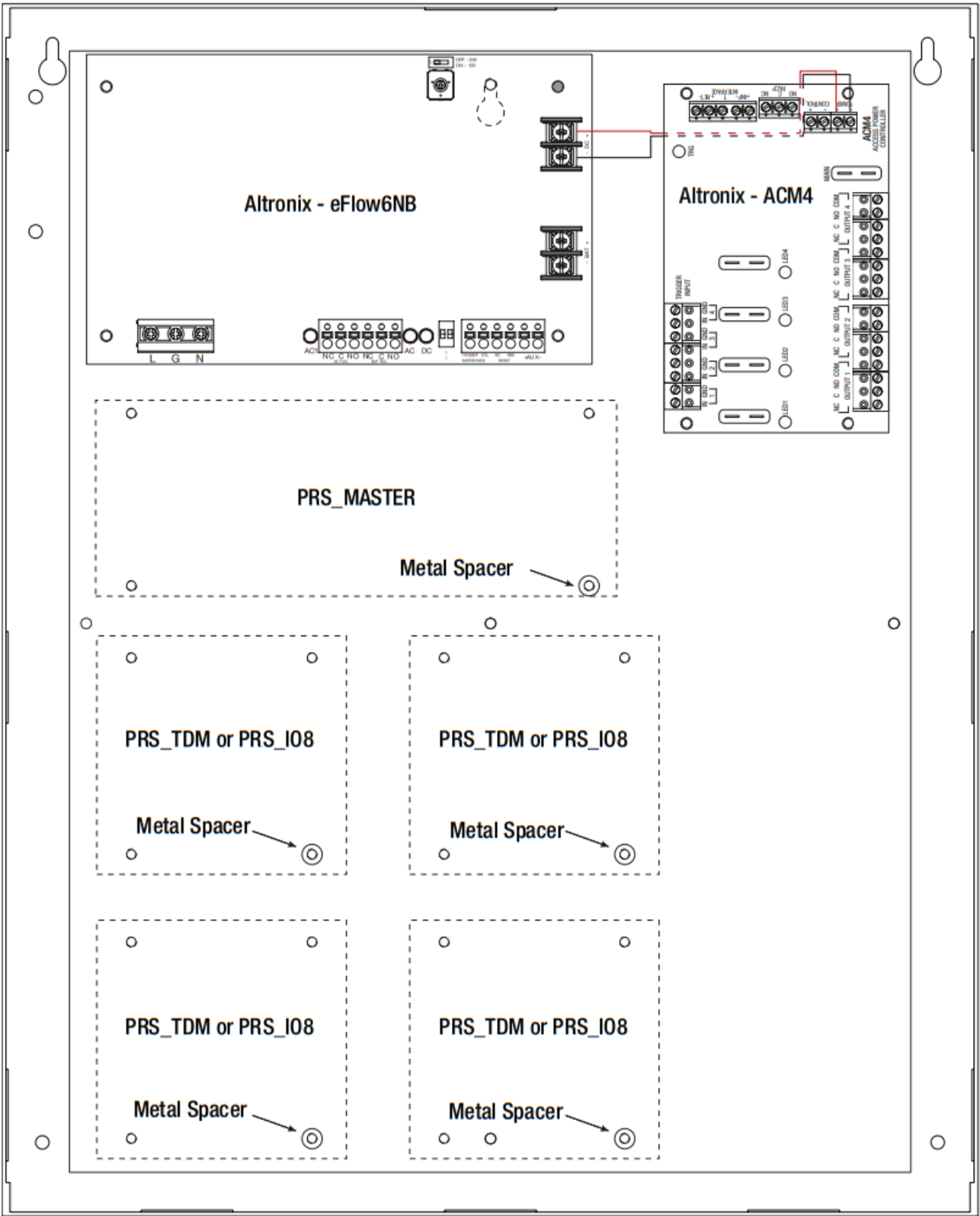**T1HCK3F4: Configuration of Hartmann Controls Boards:**

1. Align the Hartmann Controls boards on the backplane to match the boards' mounting holes with the corresponding poems.
2. Fasten spacers (provided) to poems that match the hole pattern for Hartmann Control boards (Fig. 3, 3a, pg. 4).
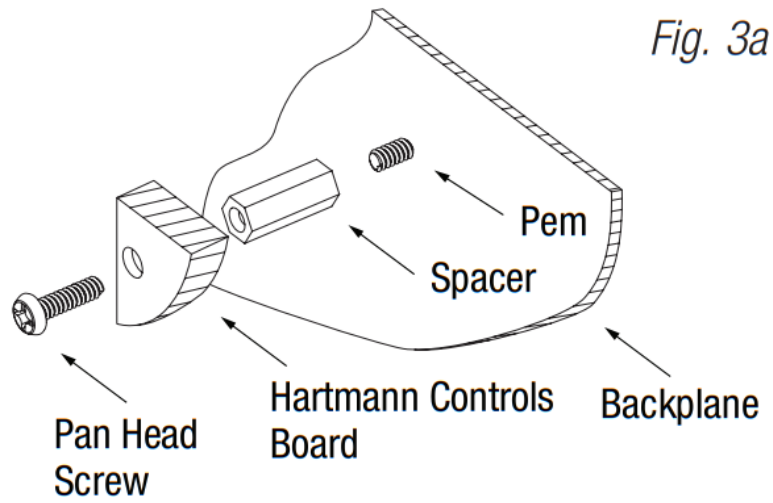   Note: Hartmann Controls boards must be properly grounded.
   Please use provided metal spacers for the lower right mounting holes (Fig. 3, pg. 4).
3. Mount Hartmann Controls boards to spacers utilizing provided 5/16" pan head screws (Fig. 3a, pg. 4).
4. Fasten backplane to Trove1 enclosure utilizing lock nuts (provided).

**Fig. 3 – T1HCK3F4 Configurations**

Altronix - eFlow6NB

Altronix - ACM4
ACCESS POWER CONTROLLER

L G N

AC1   NC C NO NC C NO   AC DC

PRS_MASTER

Metal Spacer

PRS_TDM or PRS_IO8

Metal Spacer

PRS_TDM or PRS_IO8

Metal Spacer

PRS_TDM or PRS_IO8

Metal Spacer

PRS_TDM or PRS_IO8

Metal Spacer

Fig. 3a

Pem

Spacer

Hartmann Controls Board

Backplane

Pan Head Screw

Notes:

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

LINQ™


LINQ2

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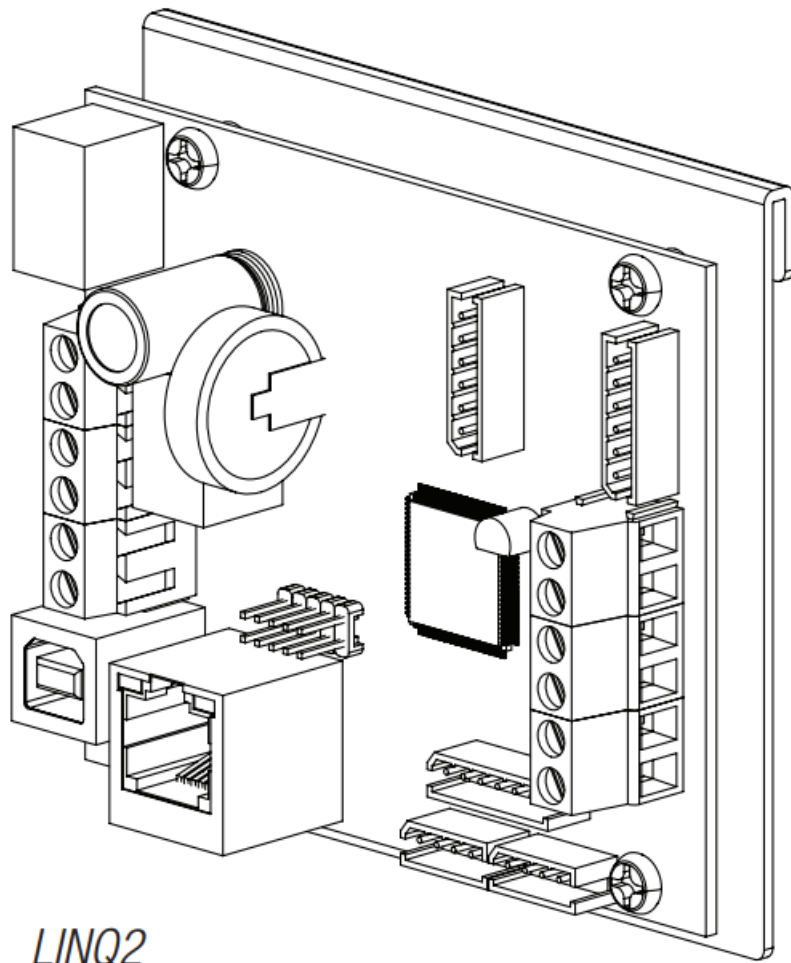
LINQ2 provides remote IP access to real-time data from eFlow power supply/chargers to help keep systems up and running at optimal levels. It facilitates fast and easy installation and set-up, minimizes system downtime, and eliminates unnecessary service calls, which helps reduce the Total Cost of Ownership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

Features:

- UL is 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
- The 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
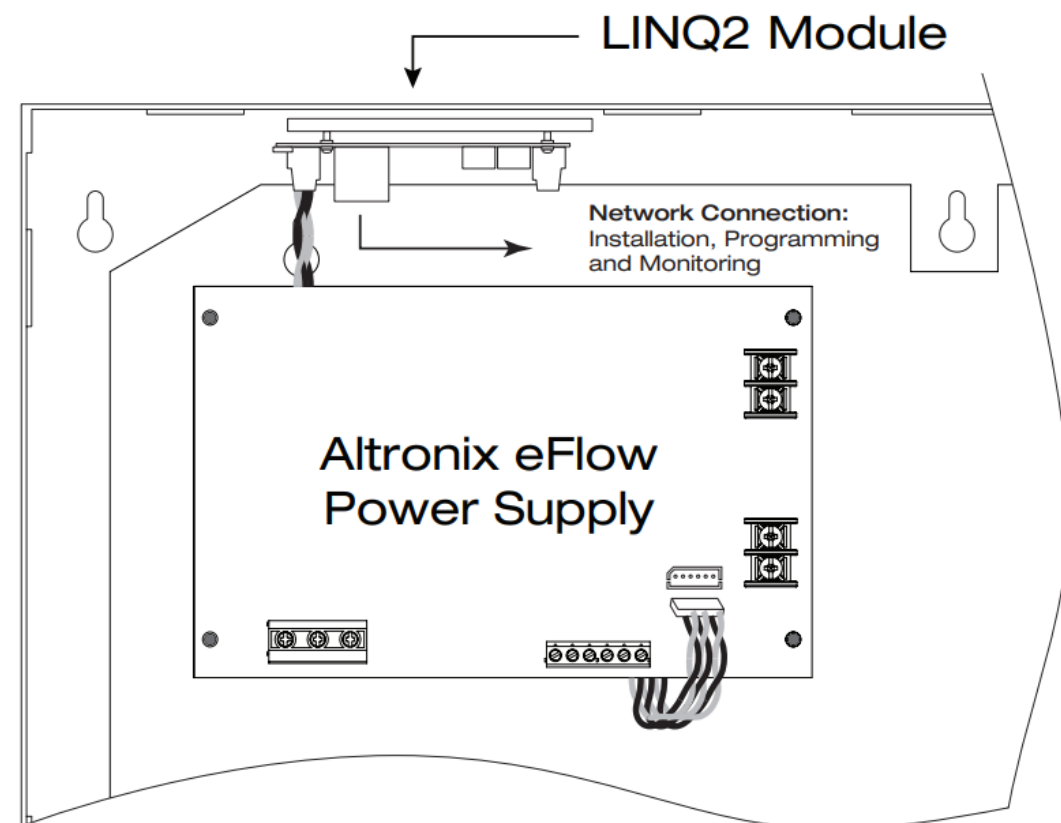
Enclosure Dimensions (H x W x D approximate):
18" x 14.5" x 4.625" (457mm x 368mm x 118mm)
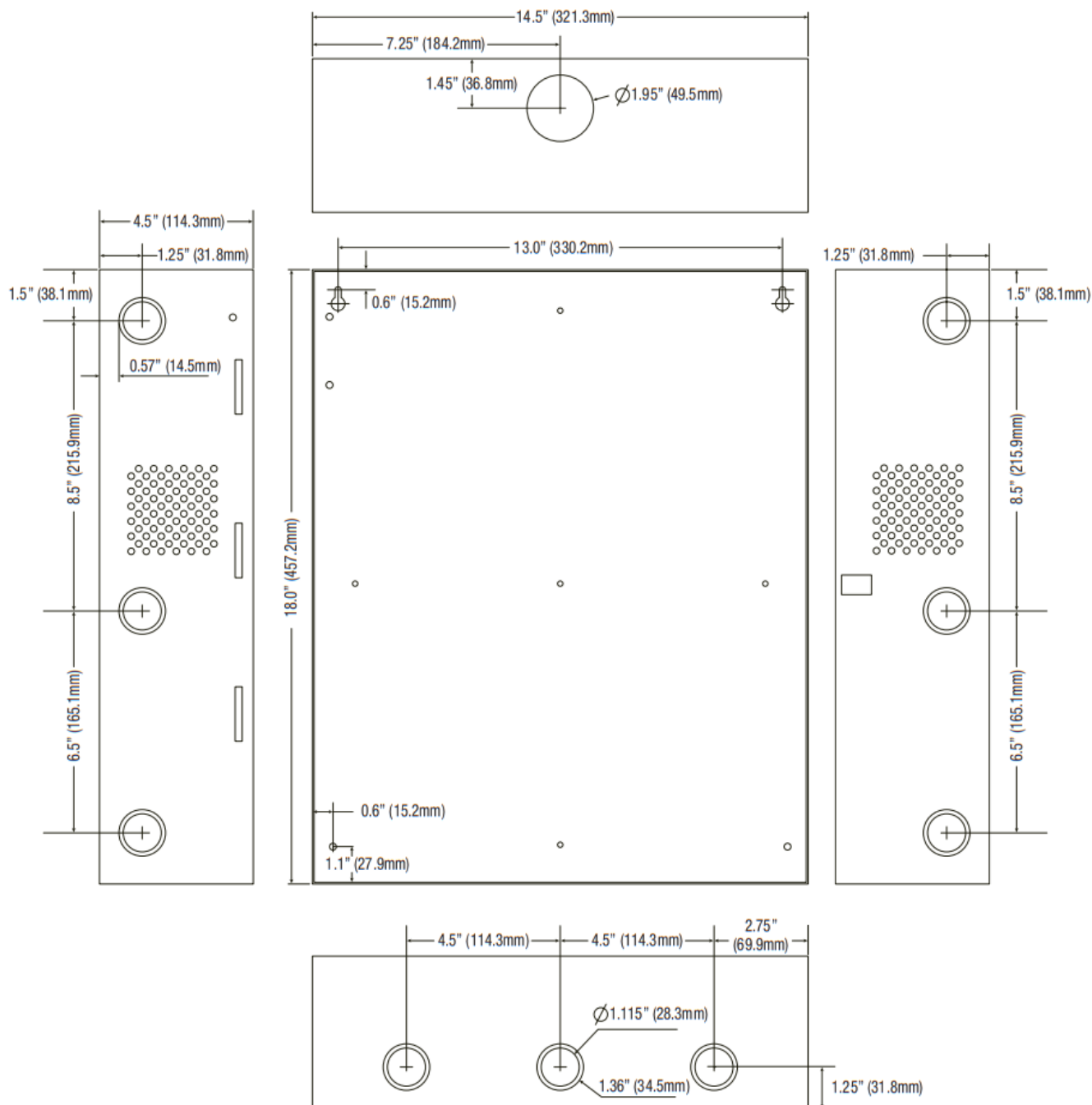
Hartmann Controls is not responsible for any typographical errors.
10 Lockhart Rd, Barrie, ON L4N 9G8, Canada | phone: 1-877-411-0101
web site: **www.hartmann-controls.com** | e-mail: **sales@hartmann-controls.com** | Made in the U.S.A.
IITHC1 Kit Series F11U

Documents / Resources

Altronix T1HCK3F4 Access and Power Integration [pdf] Installation Guide
T1HCK3F, T1HCK3F4, Access and Power Integration, T1HCK3F4 Access and Power Integration, Power Integration, Integration

References

- 🌐 **Motion Control - Control Solutions LLC**
- 🔷 **Hartmann**

Manuals+,