Altronix T2HCK5F Access and Power Integration Installation Guide

Altronix T2HCK5F Access and Power Integration Installation Guide

Contents hide

1 Products
2 Overview
3 Configuration Chart
4 Hardware and Accessories
5 Installation Instructions
6 Configuration of Hartmann Controls Boards
7 Controlling and Monitoring
8 Features
9 LINQ2 Mounts Inside any Trove Enclosure
10 Enclosure Dimensions
11 Documents / Resources
11.1 References
12 Related Posts

Products

T2HCK5F
Up to 16 Door Kit
Fully assembled kit includes:

- Trove2 enclosure with THC2 Altronix/Hartmann Controls backplane
- One (1) eFlow102NB – Power Supply/Charger

T2HCK7F8
8 Door Kit with Fused Outputs
Fully assembled kit includes:

- Trove2 enclosure with THC2 Altronix/Hartmann Controls backplane
  One (1) eFlow104NB – Power Supply/Charger
- One (1) ACMS8 – Dual Input Fused Access Power Controller
- One (1) VR6 – Voltage Regulator
- One (1) PDS8 – Dual Input Fused Power Distribution Module

T2HCK75F
Up to 16 Door Kit
Fully assembled kit includes:

- Trove2 enclosure with THC2 Altronix/Hartmann Controls backplane
- One (1) eFlow104NB – Power Supply/Charger
- One (1) eFlow102NB – Power Supply/Charger

T2HCK75F16
Up to 16 Door Kit with Fused Outputs
Fully assembled kit includes:

- Trove2 enclosure with THC2 Altronix/Hartmann Controls backplane
- One (1) eFlow104NB – Power Supply/Charger
- One (1) eFlow102NB – Power Supply/Charger
- Two (2) ACMS8 – Dual Input Fused Access Power Controllers

All components of these Trove kits are UL Listed sub-assemblies.
Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Overview

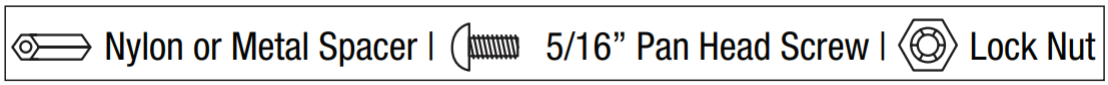
Altronix Trove Hartmann Controls kits are pre-assembled and consist of Trove enclosure with factory installed Altronix power supply/chargers and sub-assemblies. Each kit also accommodates up to two (2) Hartmann Controls PRS_Master boards and up to eight (8) PRS_TDM or PRS_IO8 boards.

Configuration Chart

Nominal DC Output Voltage Options

Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Power Supply 1 [DC] 12VDC Output Range (V)	Power Supply 1 [DC] 24VDC Output Range (V)	Power Supply 1 [AUX] 12VDC Output Range (V)	Power Supply 1 [AUX] 24VDC Output Range (V)	Power Supply 2 [DC] 12VDC Output Range (V)	Power Supply 2 [DC] 24VDC Output Range (V)	Power Supply 2 [AUX] 12VDC Output Range (V)	Power Supply 2 [AUX] 24VDC Output Range (V)	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8 Access Power Controller's outputs (A)	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per ACMS8 Output (A)	ACMS8 Board Input Fuse Rating	ACMS8 Board Output Fuse Rating
T2HCK5F	3.5	5A/250V	15A/32V	eFlow102NB 10.0-13.2	–	10.03-13.2	–	N/A –				12VDC @ 10A	–	–	–	–
T2HCK7F8	3.5	5A/250V	15A/ 32V	eFlow102NB 10.0-13.2	–	10.03-13.2	–	N/A –				12VDC @ 9.4A	8	2.5	15A/32V	3A/32V
T2HCK75F	8.0	6.3A/250V (eFlow104NB) 5A/250V (eFlow102NB)	15A/32V	eFlow104NB –	20.19-26.4	–	20.19-26.4	eFlow102NB 10.0-13.2	–	10.03-13.2	–	–	–	–	–	–
T2HCK75F16	8.0	6.3A/250V (eFlow104NB) 5A/250V (eFlow102NB)	15A/ 32V	eFlow104NB –	20.19-26.4	–	20.19-26.4	eFlow102NB 10.0-13.2	–	10.03-13.2	–	24VDC @ 9.2A	16	2.5	15A/ 32V	3A/ 32V

Hardware and Accessories

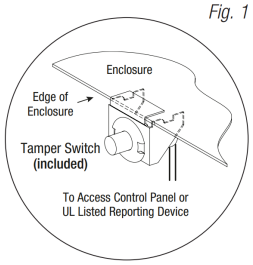


Installation Instructions

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.

Fig. 1



4. Mount Hartmann Controls boards to backplane, refer to pages 3-6.
5. Refer to the eFlow Power Supply/Charger Installation Guide for eFlow104NB and eFlow102NB and corresponding Sub-Assembly Installation Guides for the following models: ACMS8, PDS8 and VR6 for further installation instructions.

Configuration of Hartmann Controls Boards

T2HCK5F: 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 Trove2 enclosure utilizing lock nuts (provided).
   Fig. 2 – T2HCK5F Configuration

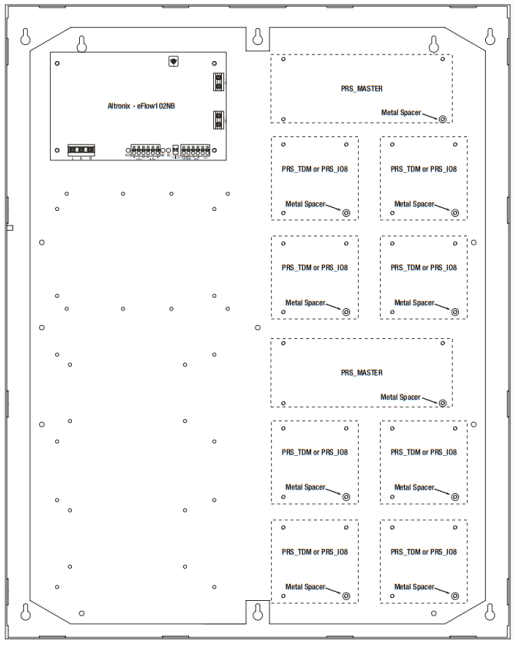
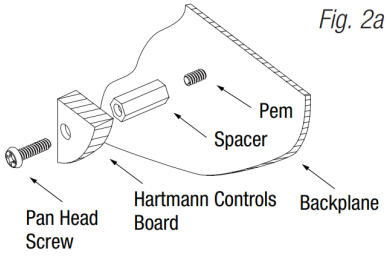


Fig. 2a



T2HCK7F8: 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 Trove2 enclosure utilizing lock nuts (provided).
   Fig. 3 – T2HCK7F8 Configuration

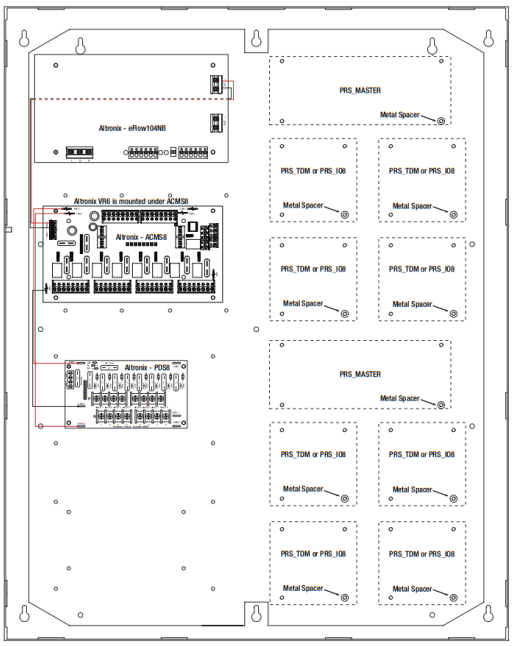
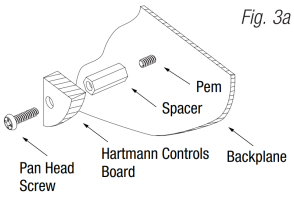


Fig. 3a



T2HCK75F: 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. 4, 4a, pg. 5).
   Note: Hartmann Controls boards must be properly grounded.
   Please use provided metal spacers for the lower right mounting holes (Fig. 4, pg. 5).
3. Mount Hartmann Controls boards to spacers utilizing provided 5/16" pan head screws (Fig. 4a, pg. 5).
4. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).
   Fig. 4 – T2HCK75F Configuration

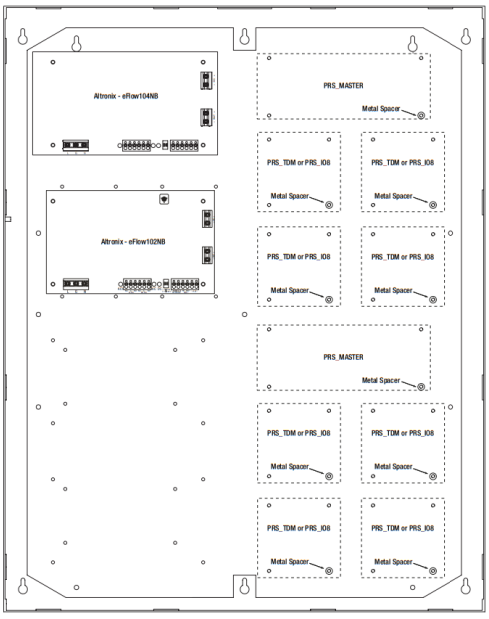
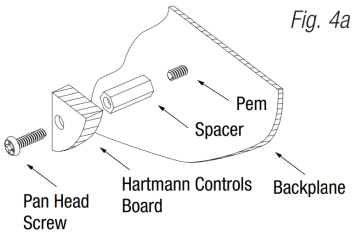


Fig. 4a



T2HCK75F16: 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. 5, 5a, pg. 6).
   Note: Hartmann Controls boards must be properly grounded.
   Please use provided metal spacers for the lower right mounting holes (Fig. 5, pg. 6).
3. Mount Hartmann Controls boards to spacers utilizing provided 5/16" pan head screws (Fig. 5a, pg. 6).
4. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).
   Fig. 5 – T2HCK75F16 Configuration

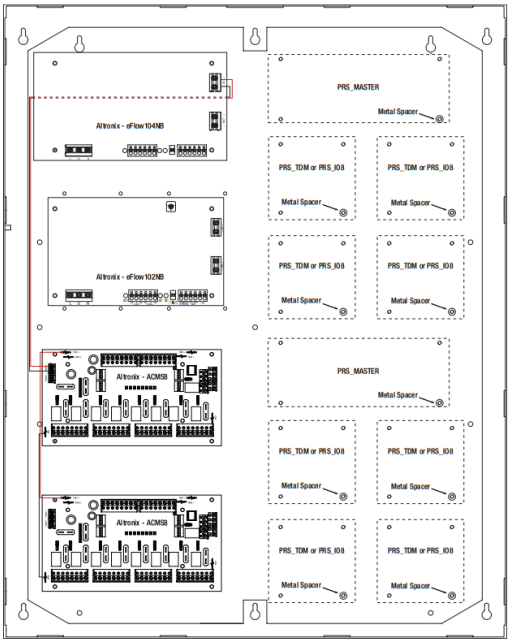
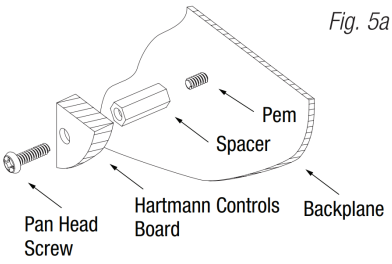


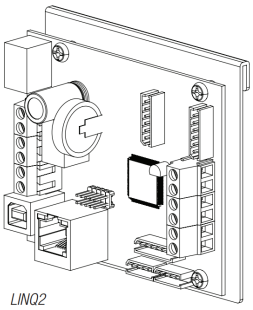
Fig. 5a



Controlling and Monitoring

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

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).

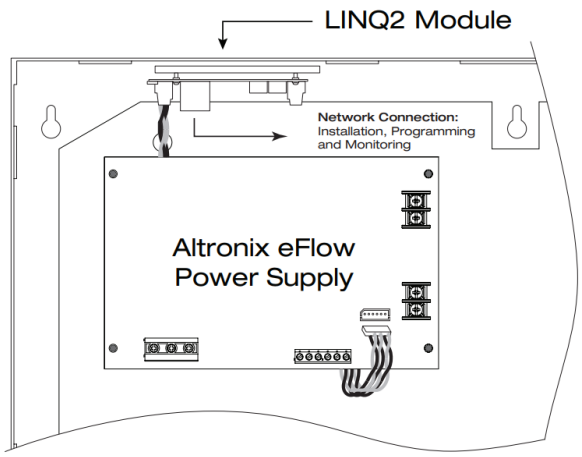


LINQ2

Features

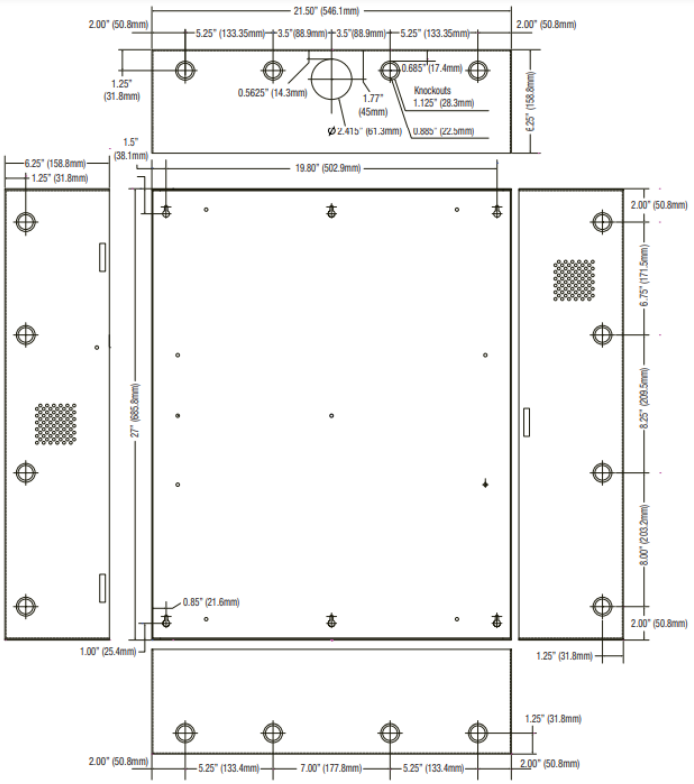
- UL Listed in the U.S. and Canada.
- Local or remote control of up to (2) two Altronix eFlow power output(s) via LAN and/or WAN.
- Monitor real time diagnostics: DC output voltage, output current, AC & battery status/service, input trigger state change, output state change and unit temperature.
- Access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



Enclosure Dimensions

Enclosure Dimensions (H x W x D approximate):
27.25” x 21.5” x 6.5” (692.2mm x 552.5mm x 165.1mm)



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 U.S.A.
IITHC2 Kit Series F11U

Documents / Resources

Altronix T2HCK5F Access and Power Integration [pdf] Installation Guide
T2HCK5F Access and Power Integration, T2HCK5F, Access and Power Integration

References

- **Motion Control - Control Solutions LLC**
- **Hartmann**