

Access & Power Integration

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.

Installation Guide

All registered trademarks are property of their respective owners.		
Rev. T2HC052820		
Installing Company:	Service Rep. Name:	
Addraga		Phone #

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 108 boards.

Configuration Chart:

			ery	Nominal DC Output Voltage Options						Maximum	or .							
	Battery			Power Supply 1			Power Supply 2					2						
	ard Bra		ard I	[DC] [AUX]		JX]	[DC] [AUX]			Supply Current for Main and	Secure (Outputs	_		put		<u>g</u>		
Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Fuse Rating	12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)	12VDC Output Range (V)	24VDC Output Range (V)	Aux. Outputs on Power Supply board and ACMS8 Access Power Controller's outputs (A)	دٌ چ	Current Per ACMS8 Output (A)	ACMS8 Board Input Fuse Rating	ACMS8 Board Output Fuse Rating	PDS8 Board Input Fuse Rating	PDS8 Board Output Fuse Rating
T2HCK5F	3.5	5A/250V	15A/ 32V	eFlow102NB			N/A				12VDC @ 10A							
				10.0- 13.2	_	10.03- 13.2	_		-	_		12VDC @ TUA	_		_	ı	_	_
T2HCK7F8 3	0.5		15A/ 32V	eFlow102NB		N/A				12VDC @ 9.4A	8	2.5	15A/	3A/	10A/	3A/		
	3.5			10.0- 13.2	_	10.03- 13.2	_		-	_		12VDC @ 9.4A	0	2.0	32V	32V	32V	32V
T2HCK75F	8.0	6.3A/250V (eFlow104NB)	15A/		eFlow104NB		eFlow102NB											
		5A/250V (eFlow102NB)	32V	_	20.19- 26.4	_	20.19- 26.4	10.0- 13.2	_	10.03- 13.2	_	_	_	_	_	_	_	_
T2HCK75F16	8.0	6.3A/250V (eFlow104NB)	15A/	eFlow104NB		eFlow102NB				241/00 @ 0.04	16	2.5	15A/	3A/				
		5A/250V (eFlow102NB)	32V	_	20.19- 26.4	_	20.19- 26.4	10.0- 13.2	_	10.03- 13.2	_	24VDC @ 9.2A	16	2.5	32V	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.
- 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.

Fig. 1

Enclosure
Enclosure
Tamper Switch
(included)

To Access Control Panel or
UL Listed Reporting Device

- 2 - THC2 Kits

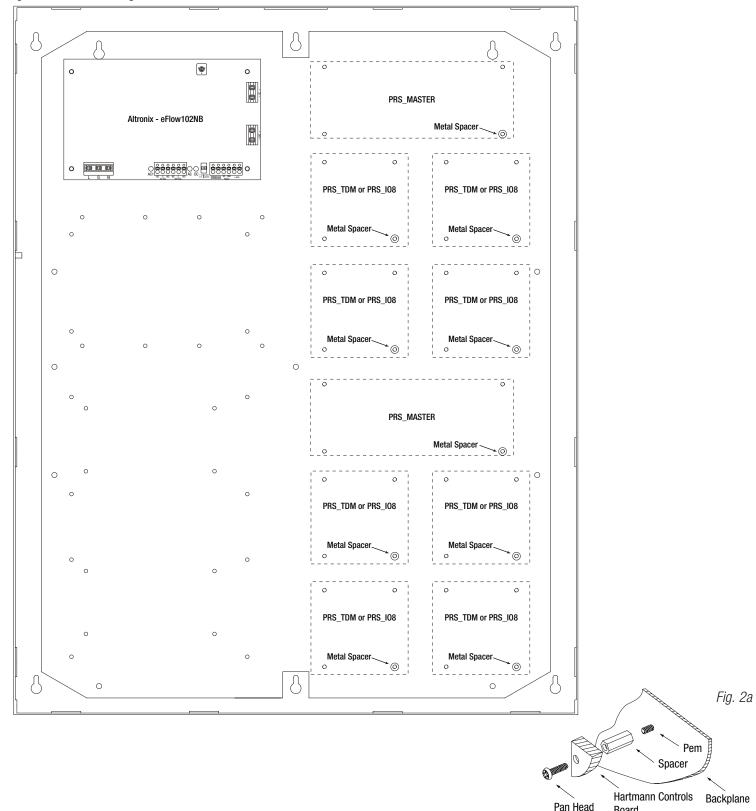
T2HCK5F: Configuration of Hartmann Controls Boards:

- 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



Board

Screw

T2HCK7F8: Configuration of Hartmann Controls Boards:

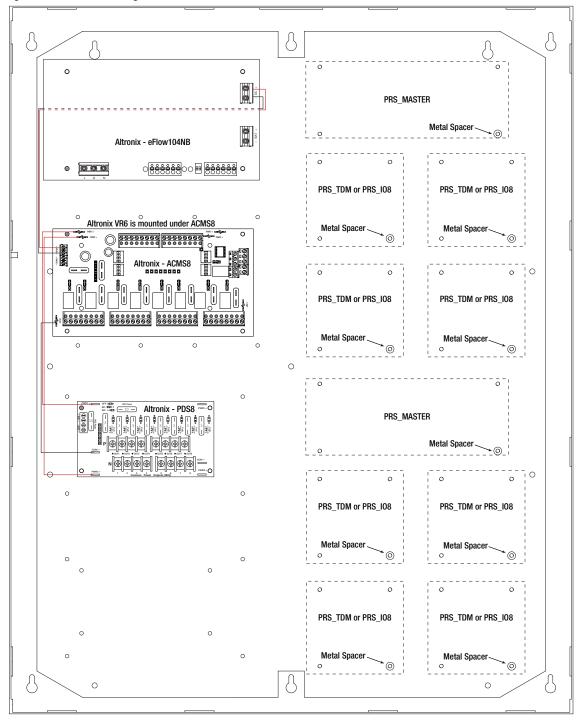
- 1. Align the Hartmann Controls boards on the backplane to match the boards' mounting holes with corresponding pems.
- 2. Fasten spacers (provided) to pems that match the hole pattern for Hartmann Control boards (Fig. 3, 3a, pg. 4).

 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. 2 - T2HCK7F8 Configuration



Backplane

Fig. 3a

Spacer

Hartmann Controls

Board

Pan Head

Screw

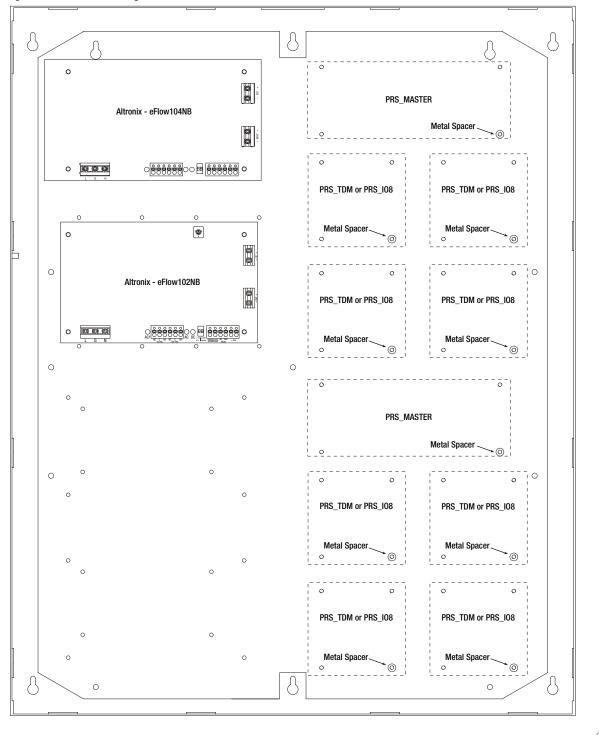
T2HCK75F: Configuration of Hartmann Controls Boards:

- 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



Backplane

Fig. 4a

Spacer

Hartmann Controls

Board

Pan Head

Screw

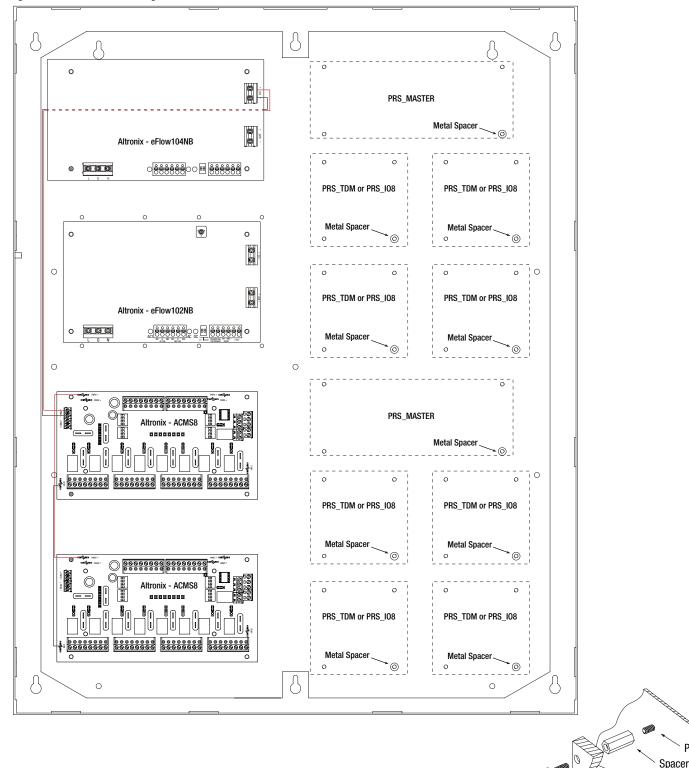
T2HCK75F16: Configuration of Hartmann Controls Boards:

- 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



Backplane

Hartmann Controls

Board

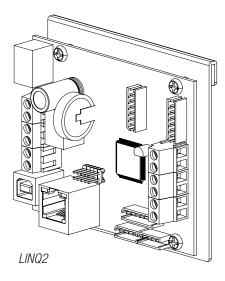
Pan Head

Screw

Fig. 5a



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



LINQ

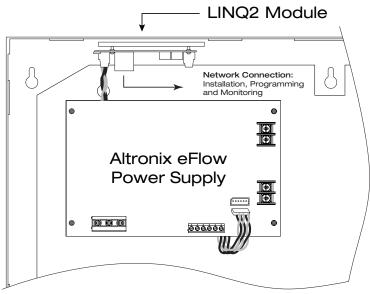
LINQ2 - Network Communication Module

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).

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.

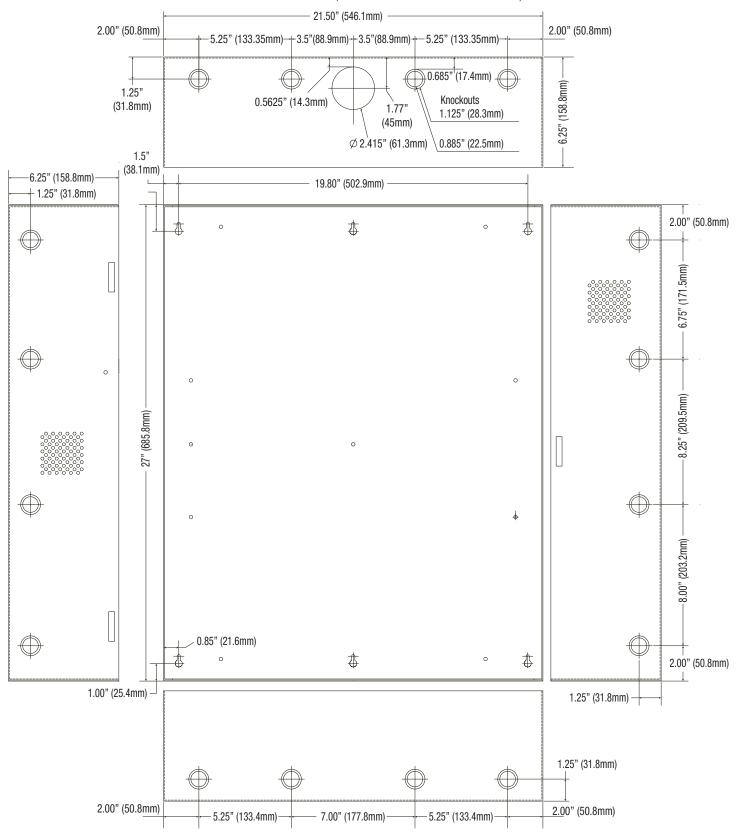
LINQ2 Mounts Inside any Trove Enclosure



THC2 Kits -7-

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.