



Access & Power Integration

Altronix/PDK Kits

Models Include:

T1PDK7F8

8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove1 enclosure with TPD1 Altronix/PDK backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8 - Dual Input Fused Access Power Controller
- One (1) VR6 - Voltage Regulator

T1PDK7FM8

8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove1 enclosure with TPD1 Altronix/PDK backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8 - Dual Input Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch

T2PDK75F16S

16 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TPD2 Altronix/PDK backplane
- (1) eFlow104NB - Power Supply/Charger
- (1) eFlow102NB - Power Supply/Charger
- (2) ACMS8 - Dual Input Fused Access Power Controllers
- (1) VR6 - Voltage Regulator
- (1) PD8UL - Fused Power Distribution Module

T2PDK77F24S

24 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TPD2 Altronix/PDK backplane
- (2) eFlow104NB - Power Supply/Chargers
- (2) ACMS12 - Dual Input Fused Access Power Controllers
- (2) VR6 - Voltage Regulators
- (2) PDS8 - Dual Input Fused Power Distribution Modules

T1PDK7F8D

8 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove1 enclosure with TPD1 Altronix/PDK backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8CB - Dual Input PTC Access Power Controller
- One (1) VR6 - Voltage Regulator

T1PDK7FM8D

8 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove1 enclosure with TPD1 Altronix/PDK backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8CB - Dual Input PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch

T2PDK75F16SD

16 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with TPD2 Altronix/PDK backplane
- (1) eFlow104NB - Power Supply/Charger
- (1) eFlow102NB - Power Supply/Charger
- (2) ACMS8CB - Dual Input PTC Access Power Controllers
- (1) VR6 - Voltage Regulator
- (1) PD8ULCB - PTC Power Distribution Module

T2PDK77F24SD

24 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with TPD2 Altronix/PDK backplane
- (2) eFlow104NB - Power Supply/Chargers
- (2) ACMS12CB - Dual Input PTC Access Power Controllers
- (2) VR6 - Voltage Regulators
- (2) PDS8CB - Dual Input PTC Power Distribution Modules

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

Installation Guide



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Rev. TPDK_031825

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____



More than just power.™

Overview:

Altronix Trove PDK kits are pre-assembled and consist of Trove1PD1 or Trove2PD2 enclosure/backplane with factory installed Altronix power supply/chargers and sub-assemblies. These kits also accommodate various combinations of PDK red1, red2, red4 modules for up to twenty four (24) doors in a single enclosure.

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				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8(CB)/ ACMS12(CB) Access Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per ACMS8(CB)/ ACMS12(CB) Output (A)	ACMS8(CB)/ACMS12(CB) Board Input Fuse (PTC) Rating	ACMS8(CB)/ACMS12(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
				Power Supply 1		Power Supply 2									
				[DC]	[Aux]	[DC]	[Aux]								
				Output Range (VDC)	Output Range (VDC)	Output Range (VDC)	Output Range (VDC)								
T1PDK7F8, T1PDK7FM8	4.5	6.3A/ 250V	15A/ 32V	20.17- 26.4	20.28- 26.4	—	—	24VDC @ 9.2A	8	2.5	15A/ 32V	3A/ 32V	—	—	—
T1PDK7F8D, T1PDK7FM8D		6.3A/ 250V		20.17- 26.4	20.28- 26.4	—	—				9A	2.5A	—	—	—
T2PDK75F16S	8	6.3A/ 250V	15A/ 32V	20.17- 26.4	20.28- 26.4	9.7- 13.2	10.03- 13.2	12VDC @ 9.3A 24VDC @ 9.2A	16	2.5	15A/ 32V	3A/ 32V	—	—	3.5A/ 250V
T2PDK75F16SD		5A/ 250V		20.17- 26.4	20.28- 26.4	9.7- 13.2	10.03- 13.2				9A	2.5A			2.5A
T2PDK77F24S	9	6.3A/ 250V	15A/ 32V	20.17- 26.4	20.28- 26.4	20.17- 26.4	20.28- 26.4	24VDC @ 9.2A	24	2.5	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V	—
T2PDK77F24SD		6.3A/ 250V		20.17- 26.4	20.28- 26.4	20.17- 26.4	20.28- 26.4				9A	2.5A	9A	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(s) 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 two/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.
4. Connect unswitched AC power (120VAC 60Hz) to terminals marked [L, N]. 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 (120VAC 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 PDK modules to TPDK2 backplane, refer to *pg. 3-5*.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow104NB and eFlow102NB and corresponding *Sub-Assembly Installation Guides* for ACMS8(CB), ACMS12(CB), PDS8(CB), PD8UL(CB), VR6 for further installation instructions.

Hardware:

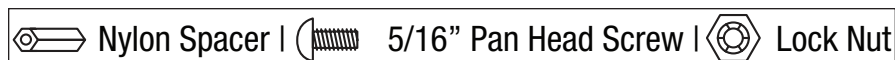
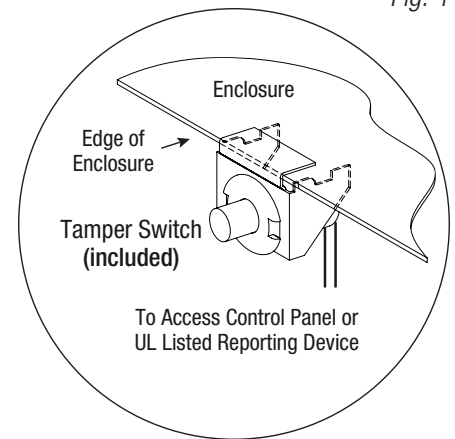


Fig. 1



T1PDK7F8(D): Configuration of PDK Modules:

1. Fasten spacers onto metal pems configuration (A) of backplane (Fig. 2, pg. 3).
2. Fasten mounting magnets (provided) to PDK Controllers with screws and spacers (provided) using the controllers' mounting holes (Fig. 2a, pg. 3).
3. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models:

PDK Access Controller	Pem Mounting
red1, red2, red4	(A)

Fig. 2

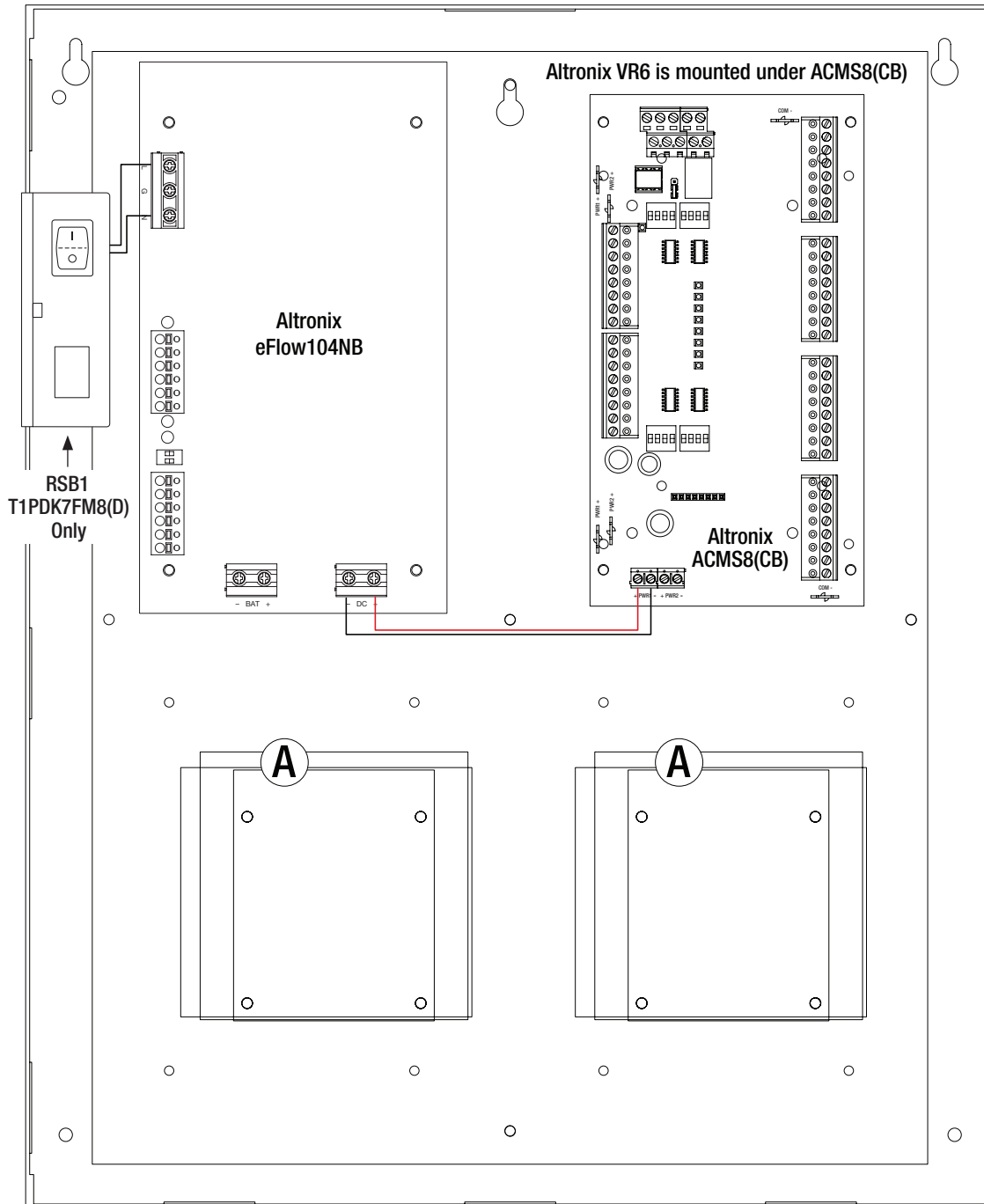
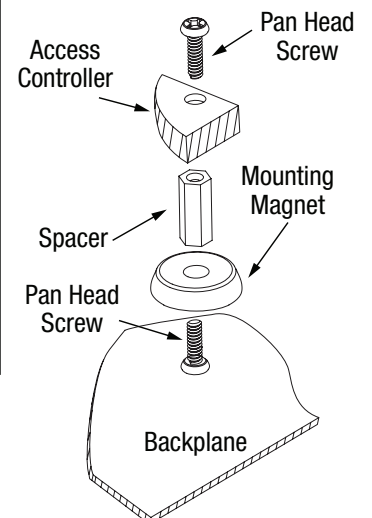


Fig. 2a



T2PDK75F16S(D): Configuration of PDK Modules:

1. Fasten spacers onto metal pems configuration (A) of backplane (Fig. 3, pg. 4).
2. Position PDK modules over corresponding spacers and mount them utilizing pan head screws (provided) (Fig. 3a, pg. 4).
3. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models:

PDK Access Controller	Pem Mounting
red1, red2, red4	(A)

Fig. 3

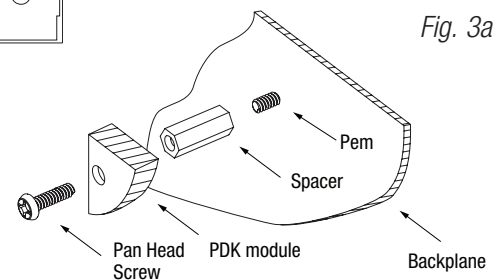
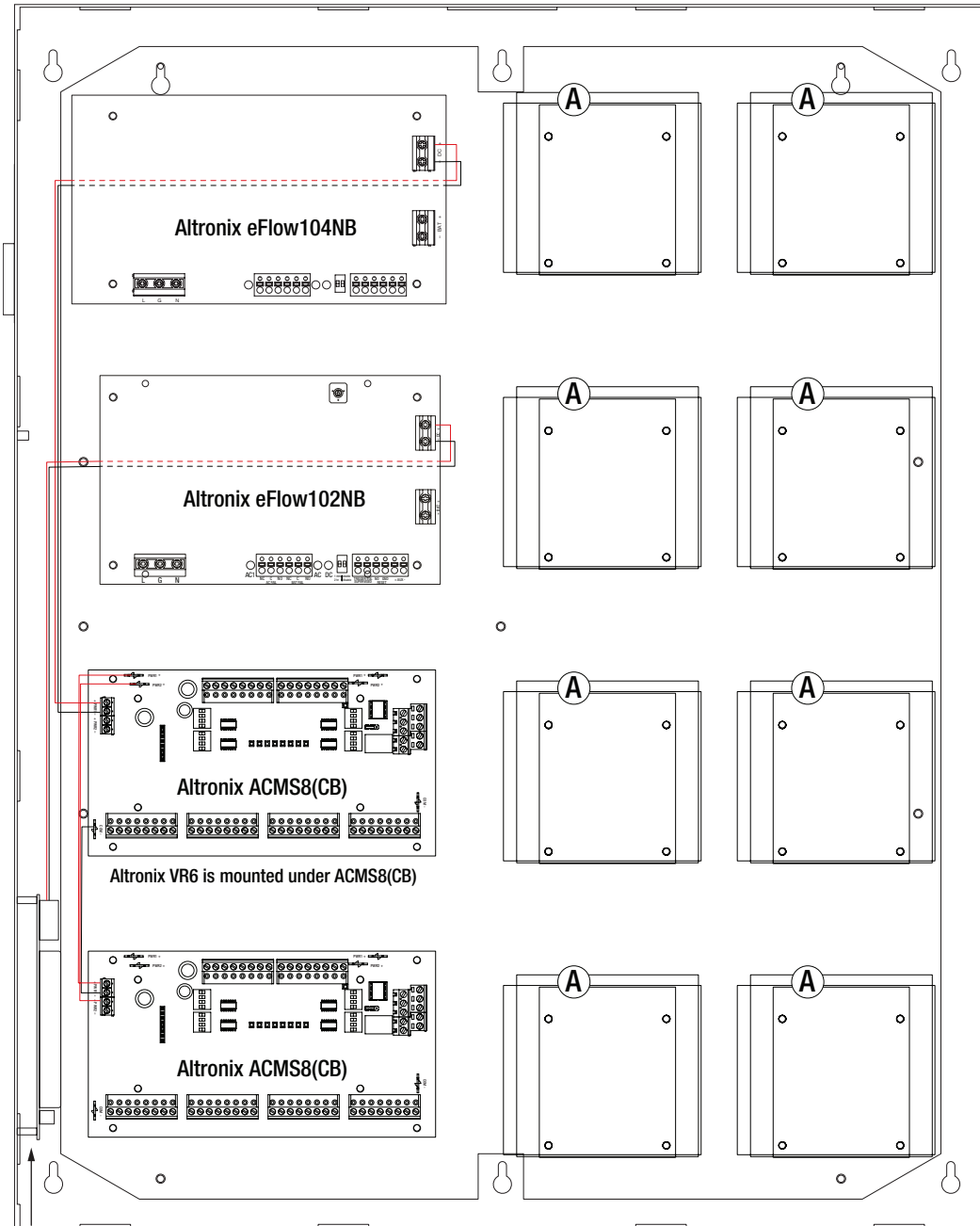


Fig. 3a

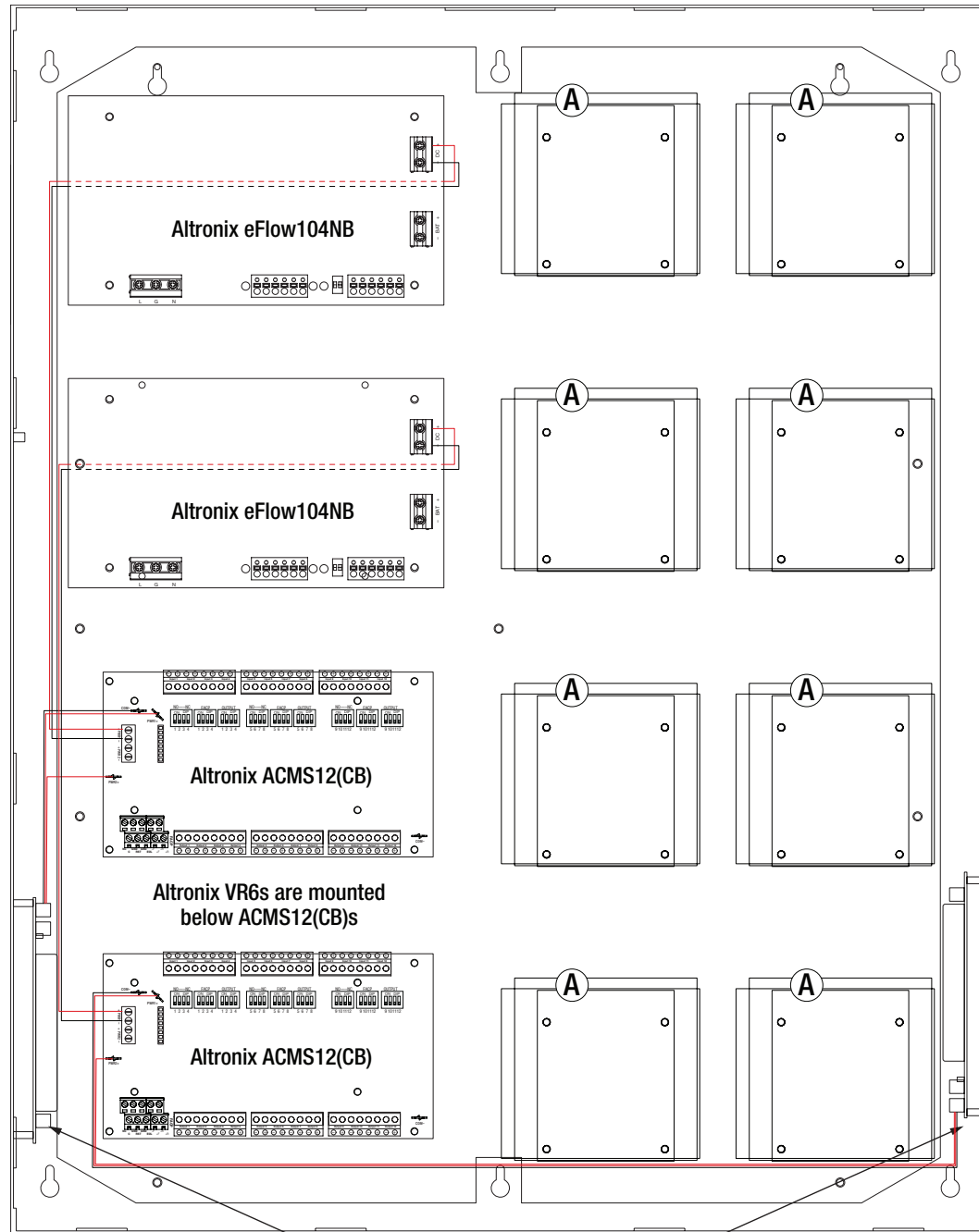
T2PDK77F24S(D): Configuration of PDK Modules:

1. Fasten spacers onto metal pems configuration (A) of backplane (Fig. 4, pg. 5).
2. Position PDK modules over corresponding spacers and mount them utilizing pan head screws (provided) (Fig. 4a, pg. 5).
3. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models:

PDK Access Controller	Pem Mounting
red1, red2, red4	(A)

Fig. 4



PDS8(CB)s are mounted to both sides of Trove2 enclosure

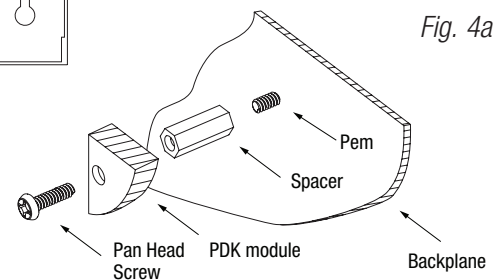
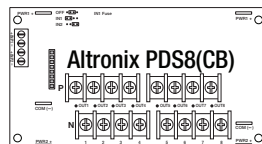
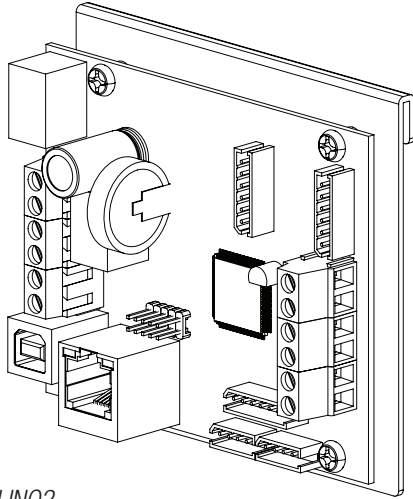


Fig. 4a



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



LINQ2

LINQ™

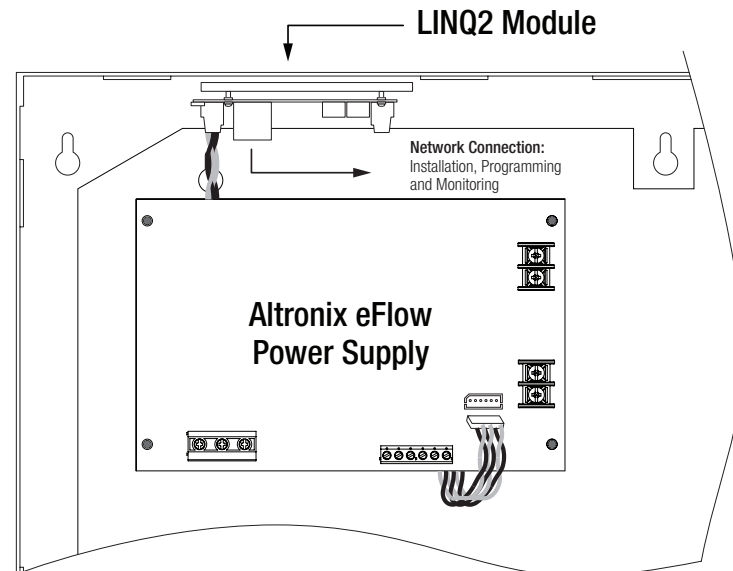
LINQ2 - Network Communication Module

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).

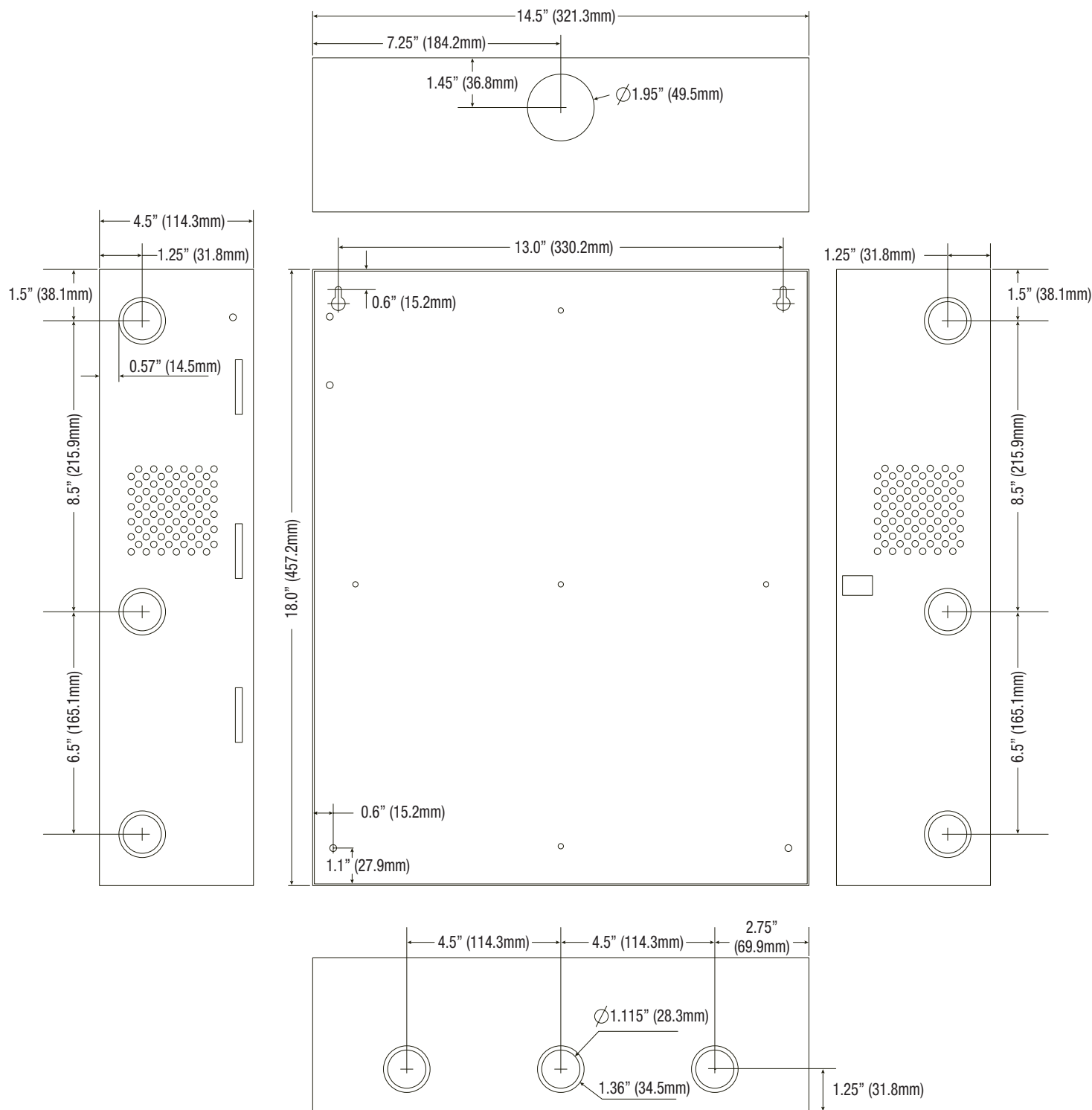
Features:

- 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 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



T1PDK7F8, T1PDK7F8D, T1PDK7FM8, T1PDK7FM8D Enclosure Dimensions (H x W x D):
 18" x 14.5" x 4.625" (457mm x 368mm x 118mm)



Enclosure Dimensions (H x W x D):

Technical drawing of a rectangular panel, likely a door or window frame, showing dimensions in inches and millimeters. The drawing includes a top view and a side view.

Top View Dimensions:

- Overall width: 21.50" (546.1mm)
- Overall height: 6.25" (158.8mm)
- Top edge features:
 - Left side: 2.00" (50.8mm) from left edge to center of first hole.
 - Between holes: 5.25" (133.35mm), 3.5" (88.9mm), 3.5" (88.9mm), 5.25" (133.35mm).
 - Right side: 2.00" (50.8mm) from center of last hole to right edge.
- Internal features:
 - Top edge: 1.25" (31.8mm) from top edge to center of first hole.
 - Center hole: Ø 2.415" (61.3mm).
 - Knockouts: 1.125" (28.3mm) from center of hole to knockout.
 - Other dimensions: 0.5625" (14.3mm), 1.77" (45mm), 0.685" (17.4mm), 0.885" (22.5mm).

Side View Dimensions:

- Overall width: 19.80" (502.9mm)
- Overall height: 27" (685.8mm)
- Top edge features:
 - Left side: 6.25" (158.8mm) from left edge to center of first hole.
 - Between holes: 1.25" (31.8mm).
- Internal features:
 - Top edge: 1.5" (38.1mm) from top edge to center of first hole.
 - Center hole: Ø 2.415" (61.3mm).
 - Knockouts: 1.125" (28.3mm) from center of hole to knockout.
 - Other dimensions: 0.85" (21.6mm).

