



T1MK14 Trove Mercury Kits



Altronix T1MK14 Trove Mercury Kits Instruction Manual

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Altronix T1MK14 Trove Mercury Kits



Product Usage Instructions

- All components of these Trove kits are pre-assembled and include the Trove1 enclosure with the TM1 Altronix/Mercury backplane.
- Each kit comes with specific components based on the model chosen.

Configuration Chart

- The kits support various configurations and come with different power supply and controller options.
- Refer to the chart for specific details on input voltage, fuse ratings, and current ratings for different models.
- Remove the backplane from the enclosure without discarding any hardware.
- Mark and predrill holes in the wall according to the top two keyholes in the enclosure.
- Install two upper fasteners and screws for mounting.
- Follow wiring methods as per the National Electrical Code and local codes.
- The product is suitable for indoor use only.

FAQ

- **Q:** Can the Trove kits support more than 4 doors?
- **A:** No, these kits are designed to support up to four doors in a single enclosure.
- **Q:** What is the maximum supply current for the power supply board and ACM4/ACM4CB?
- **A:** The maximum supply current is 3.6A for the power supply board and ACM4/ACM4CB.

Models Include

T1MK14

4 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove1 enclosure with TM1 Altronix/Mercury backplane
- (1) AL400ULXB2 – Power Supply/Charger
- (1) VR6 – Voltage Regulator
- (1) ACM4 – Fused Access Power Controller

T1MK14S

4 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove1 enclosure with TM1 Altronix/Mercury backplane
- (1) AL400ULXB2 – Power Supply/Charger
- (1) VR6 – Voltage Regulator
- (1) ACM4 – Fused Access Power Controller
- (1) PDS8 – Dual Input Power Distribution Module

T1MK14D

4 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove1 enclosure with TM1 Altronix/Mercury backplane
- (1) AL400ULXB2 – Power Supply/Charger
- (1) VR6 – Voltage Regulator
- (1) ACM4CB – PTC Access Power Controller

T1MK14SD

4 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove1 enclosure with TM1 Altronix/Mercury backplane
- (1) AL400ULXB2 – Power Supply/Charger
- (1) VR6 – Voltage Regulator
- (1) ACM4CB – PTC Access Power Controller
- (1) PDS8CB – Dual Input Power Distribution Module

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. T1MKL113021

- Installing Company: _____ Service Rep. Name: __

• Address: _____ Phone #: _____

Overview

- Altronix Trove Mercury kits are pre-assembled and consist of Trove1M1 enclosure/backplane with factory-installed Altronix power supply/charger and sub-assemblies.
- These kits also accommodate various combinations of Mercury boards for up to four (4) doors in a single enclosure.

Configuration Chart

Altronix Model Number	115V AC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage Range (V)	Maximum Supply Current for Outputs on the Power Supply board and ACM4/ACM4CB Access Power Controller's outputs (A)	Fail-Safe /Fail-Secure Outputs	Current Per ACM4(CB) Output (A)	ACM4/ACM4CB Board Input Fuse (PTC) Rating	ACM4/ACM4CB Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating
T1MK14	3.0	5A/ 250V	15A/ 32V	20.28- 26.4	24VDC @ 3.6A	4	2.5	10A/ 250V	3A/ 32V	—	—
T1MK14D	3.0	5A/ 250V	15A/ 32V	20.28- 26.4	24VDC @ 3.6A	4	2.0	9A	2.5A	—	—
T1MK14S	3.0	5A/ 250V	15A/ 32V	20.28- 26.4	24VDC @ 3.6A	4	2.5	10A/ 250V	3A/ 32V	10A/ 250V	3A/ 32V
T1MK14SD	3.0	5A/ 250V	15A/ 32V	20.28- 26.4	24VDC @ 3.6A	4	2.0	9A	2.5A	9A	2.5A

Installation Instructions

Wiring methods shall be by the National Electrical Code/NFPA 70/ANSI and with all local codes and authorities having jurisdiction.

Product is intended for indoor use only.

- Remove the backplane from the enclosure. Do not discard hardware.
- Mark and predrill holes in the wall to line up with the top two (2) keyholes in the enclosure. Install two upper

fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws; level and secure.

Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the two lower screws and make sure to tighten all screws.

3. Mount included UL-listed tamper switch (Altronix Model T112 or equivalent) in the desired location, opposite hinge.

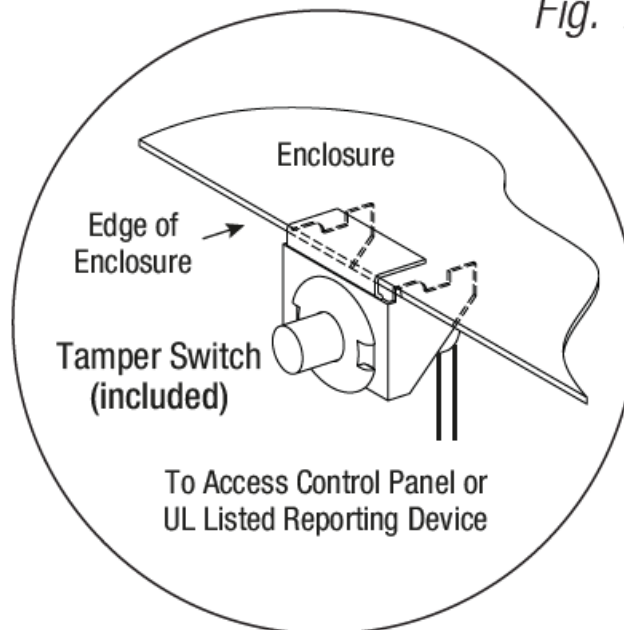
Slide the tamper switch bracket onto the edge of the enclosure approximately 2" from the right side (Fig. 1,).

Connect tamper switch wiring to the Access Control Panel input or the appropriate UL-listed reporting device.

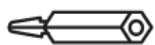


To activate the alarm signal open the door of the enclosure.

4. Position Mercury access controller modules over corresponding spacers and depress them onto snap-on spacers, Fig. 2, 3, pg. 3, 4.
5. Refer to the ULXB Power Supply/Charger Installation Guide for AL400ULXB2, and the corresponding Sub-Assembly Installation Guide for ACM4(CB), PDS8(CB), and VR6 for further installation instructions.
6. Mount the backplane to an enclosure with hardware.

Fig. 1



Hardware

 Snap On Spacer |  5/16" Pan Head Screw |  Lock Nut

T1MK14 and T1MK14D: Configuration of Mercury Boards

1. Fasten snap-on spacers onto metal poems configuration (A), (B), (C), or (D) of the backplane depending on the access controller (Fig. 2,).
2. Position the access controller module over corresponding spacers and depress it onto snap-on spacers (Fig. 2a,).
3. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models

Mercury Access Controller	Pem Mounting
EP1502, LP1502, MR52, MR16IN, MR16OUT	A
EP1501, LP1501, MR51e, MR62e	B
MR50	C
EP2500, LP2500, MUX8	D

Fig. 2

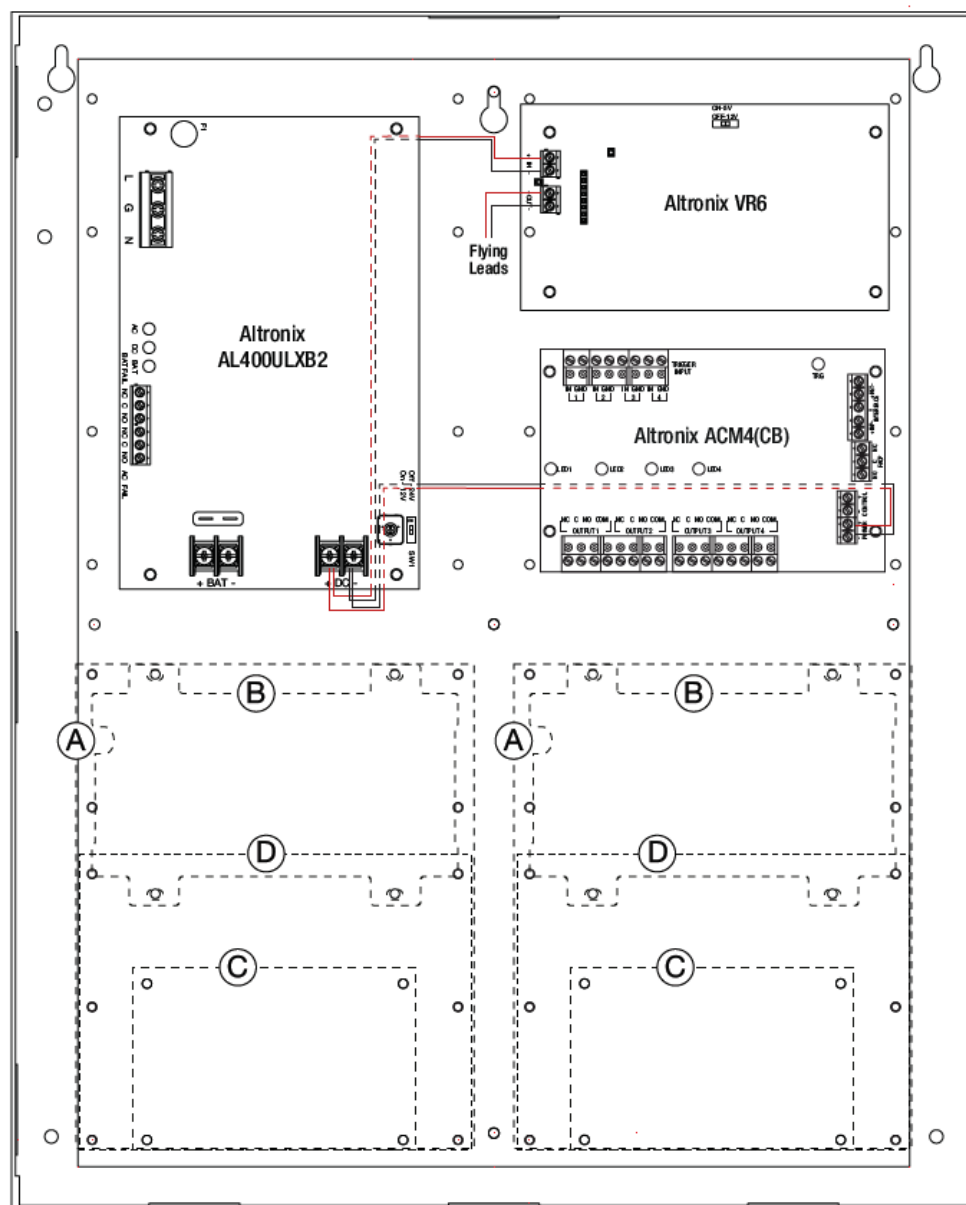
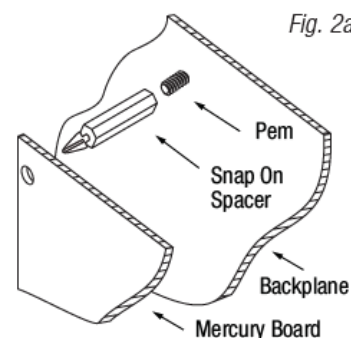


Fig. 2a



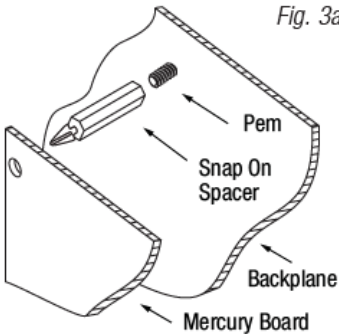
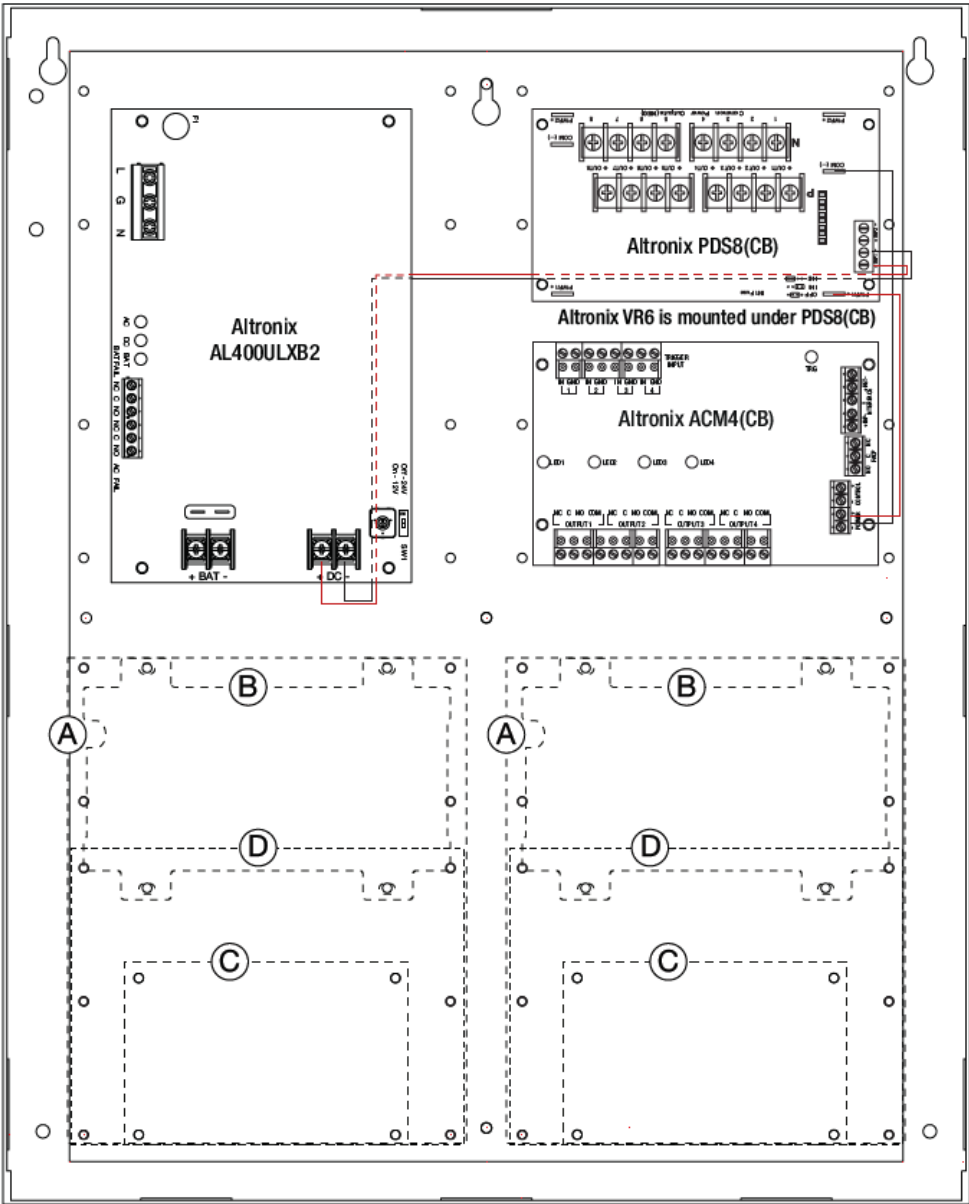
T1MK14S and T1MK14SD: Configuration of Mercury Boards

1. Fasten snap-on spacers onto metal pems configuration (A), (B), (C) or (D) of the backplane depending on the access controller (Fig. 3).
2. Position the access controller module over corresponding spacers and depress onto snap-on spacers (Fig. 3a, pg. 4).
3. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models

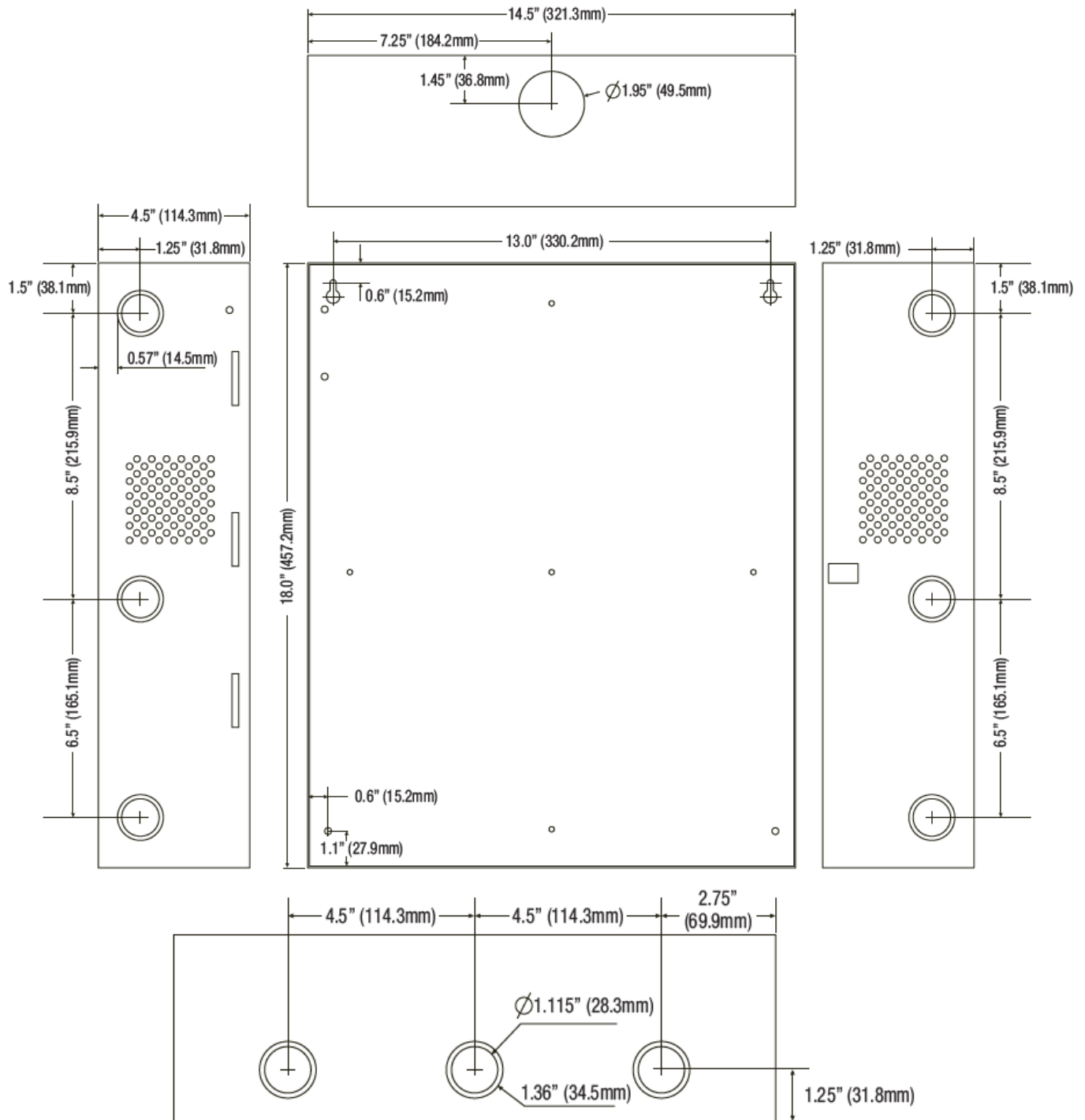
Mercury Access Controller	Pem Mounting
EP1502, LP1502, MR52, MR16IN, MR16OUT	A
EP1501, LP1501, MR51e, MR62e	B
MR50	C
EP2500, LP2500, MUX8	D

Fig. 3



Dimensions

- **Trove1 Enclosure Dimensions** (H x W x D approximate): 18" x 14.5" x 4.625" (457mm x 368mm x 118mm)



CONTACT

- Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.
- 140 58th Street, Brooklyn, New York 11220 USA | phone: [718-567-8181](tel:718-567-8181) | fax: [718-567-9056](tel:718-567-9056)
- website: www.altronix.com | e-mail: info@altronix.com | Lifetime Warranty
- IITrove1M1 ULXB Kit Series

Documents / Resources



Access & Power Integration

Altronix Trove1/Mercury Kits

<p>T1MK14 4 Door KE with Fastid Outputs Fastid accepted to include:</p> <ul style="list-style-type: none"> • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator <p>T1MK14B 4 Door KE with Fastid Outputs Fastid accepted to include:</p> <ul style="list-style-type: none"> • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator 	<p>T1MK14D 4 Door KE with PTC Outputs Fastid accepted to include:</p> <ul style="list-style-type: none"> • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator <p>T1MK14BD 4 Door KE with PTC Outputs Fastid accepted to include:</p> <ul style="list-style-type: none"> • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator • A-1000-100 1000 Series Indicator
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Installation Guide

CE  **Altronix**
More than just power

It represents technology in property of other manufacturers.
Rev. 7/2006, F1003

Installing Company _____ Come to Site: _____
Address: _____ Phone: _____

T1MK148D
4 Door KIS with PTC Outputs
Fully assembled to include:

- 1 door - complete with 10 channels/500mA terminals
- 1 A-1000-480 - Power Switch/Charger
- 1 PTC - Output/Generator
- 1 A-1000-480 - PTC Sensor/Power Controller

T1MK148D
4 Door KIS with PTC Outputs
Fully assembled to include:

- 1 door - complete with 10 channels/500mA terminals
- 1 A-1000-480 - Power Switch/Charger
- 1 PTC - Output/Generator
- 1 A-1000-480 - PTC Sensor/Power Controller
- 1 W0000 - Over/Temp/Power Distribution Module

[illegible]

 Altronix
More than just power

T1MK14, T1MK14D, T1MK14S, T1MK14SD, T1MK14 Trove Mercury Kits, T1MK14, Trove Mercury Kits, Mercury Kits, Kits

- User Manual

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