

## T1RM3F4 Trove / Mercury Kit Access & Power Integration Solution

### Description

Altronix T1RM3F4 Trove™ Rack kit is pre-assembled and consists of Trove1M1R enclosure/backplane with the following factory installed Altronix components:

- One (1) eFlow6NB - power supply/charger set at 24VDC;
- One (1) VR6 - Voltage Regulator;
- One (1) PDS8 - Fused Dual Output Power Distribution Module;
- One (1) ACM4 - Fused Access Power Controller.

This kit also accommodates various combinations of Mercury boards for up to four (4) doors in a single enclosure.



T1RM3F4



### Key Features

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| <ul style="list-style-type: none"> <li>- Output Power:                     <ul style="list-style-type: none"> <li>- Four (4) 24VDC fused lock power outputs rated at 6A total max.</li> <li>- Fire Alarm Disconnect is individually selectable by output.</li> <li>- Eight (8) individually selectable 12VDC or 24VDC fused power outputs rated at 6A total max. for readers, REXs, controllers, etc.</li> </ul> </li> <li>- Accommodates the following Mercury controllers: EP1502, MR52, MR16IN, MR16OUT, EP2500, MUX8, MR51e, EP1501, MR50.</li> <li>- Power status LED on front panel.</li> <li>- Simplified board layout and wire management.</li> </ul> | <ul style="list-style-type: none"> <li>- Convenient knockout configuration:                     <ul style="list-style-type: none"> <li>- Six (6) 1.25" diameter knockouts located on the back of enclosure.</li> </ul> </li> <li>- 6' IEC320 3-wire power cord.</li> <li>- 2U drawer on extendable rails.</li> <li>- Black powder coated steel enclosure.</li> <li>- Included Z Bracket facilitates ease of wiring.</li> <li>- Includes cam lock, tamper switch and mounting hardware.</li> <li>- CE European Conformity.</li> <li>- Lifetime Warranty* / Made in the U.S.A.</li> </ul> |
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*\*Altronix Power Supply/Charger and Sub-Assemblies only*

### Optional Accessories

- RE2:  
Rack Mount Battery Enclosure accommodates up to four (4) 12VDC/7AH batteries.
- WM5, WM25, WM100:  
Magnetic Cable Tie Mounts (5, 25, 100 counts).

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## Specifications

### Power Supply/Charger (eFlow6NB):

#### Input

Voltage	120VAC, 60Hz, 3.5A max.
Main Fuse	5A / 250V.

#### Outputs

Voltage	Factory set at 24VDC.
Current	6A continuous.

Maximum Supply Current for Main and Aux. Outputs on eFlow6NB Power Supply board, PDS8 Power Distribution Module's and ACM4 Access Power Controller's outputs is 5.6A.

Auxiliary	Class 2 power-limited @ 1A (unswitched).
Other	Oversvoltage protection. Filtered and regulated.

### Battery Backup

Type	Sealed lead acid or gel type.
Fuse Rating	10A @ 32VDC.
Failover	Upon AC loss, instantaneous.

### Fire Alarm Disconnect

Supervised	Latching or non-latching.
EOL	10K Resistor.

### Supervision

AC Failure	Form "C" contacts.
Battery	Form "C" contacts.

### Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 70-75% for 24V units. Prevents deep battery discharge.

### Indicators (LED)

Input	120VAC is present.
DC Output	Powered.
Battery	Discharged or not connected.

### Power Distribution Module (PDS8):

#### Input

Voltage	24VDC from eFlow6NB and 12VDC from VR6.
Main Fuse	10A / 250V.

#### Outputs

Voltage	12 or 24VDC individually selectable.
Output Fuses	3A / 32VDC.

### Indicators (LED)

DC Output	Eight (8) individual output LEDs.
Green:	12VDC
Red:	24VDC.

### Voltage Regulator (VR6):

#### Input

Voltage	24VDC from eFlow6NB.
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#### Output

Voltage	12VDC.
Current	6A continuous.
Other	Surge suppression.

### Indicators (LED)

Input	24VDC is present.
Output	Powered.

### Access Power Controller (ACM4):

#### Input

Voltage	24VDC from eFlow6NB.
Main Fuse	10A / 250V.

#### Outputs

Voltage	24VDC.
Four (4) independently controlled 2.5A outputs:	
a) Four (4) Fail-Safe and/or Fail-Secure power outputs.	
b) Four (4) dry form "C" 5A rated relay outputs.	
c) Any combination of the above.	

Four (4) auxiliary power outputs (unswitched).

Output Fuses	3A / 32VDC.
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### Indicators (LED)

Red LEDs	Outputs are triggered (relays energized).
Green LED	FACP disconnect is triggered.

### T1RM3F4 Kit:

#### Agency Listings

CE	European Conformity.
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### Physical and Environmental:

Dimensions (H x W x D):	Modular 2U standard EIA 19" rack mount chassis. 3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm).
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#### Weights:

Product	20 lbs. (9.07 kg).
Shipping	25 lbs. (11.34 kg).

#### Temperature

Operating	0°C to 49°C (32°F to 120°F).
Storage	-20°C to 70°C (-4°F to 158°F).

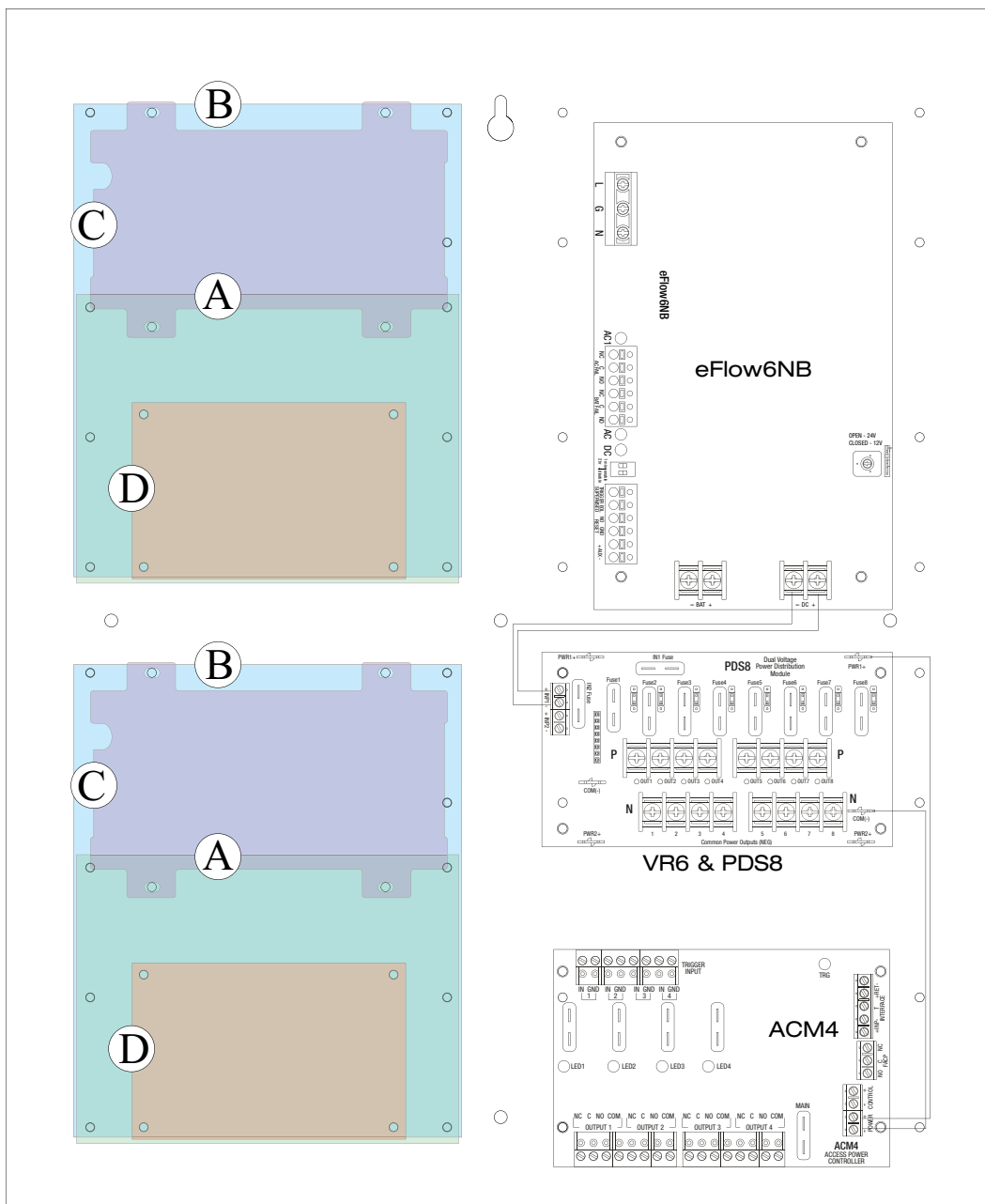
Relative Humidity	85% +/-5%.
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BTU/Hr.:	115 BTU/Hr.
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## T1RM3F4 Trove / Mercury Kit Access & Power Integration Solution

### Access Controller Position Chart for the Following Models:

Altronix/Mercury	Pem Mounting
LP2500, MUX8	(A)
LP1502, LP4502, MR52, MR16IN, MR16OUT	(B)
LP1501, MR62e	(C)
MR50	(D)



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