

# T1RSH1F4

## Rack Access and Power Integration Solution for Software House



Altronix T1RSH1F4 kit consists of Trove1R enclosure and TSH1R Altronix & Software House backplane with 12VDC or 24VDC (factory set at 24VDC) @ 4A power supply/charger and four (4) output fused access control module. This kit also accommodates various combinations of Software House boards for up to four (4) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T1RSH1F4

### SOFTWARE HOUSE

*Software House boards are not included*

#### Key Features

- Output Power:
  - Four (4) 24VDC fused lock power outputs rated at 4A total max.
  - Fire Alarm Disconnect is individually selectable by output
- Accommodates the following Software House controllers: iSTAR Ultra ACM, iSTAR ACM SE/ACM PRO, I8, R8 or I8-CSI
- Power status LED on front panel
- Simplified board layout and wire management
- Convenient knockout configuration:
  - Four (4) double knockouts - 3/4" Conduit and 1" Conduit
  - Two (2) double knockouts - 1/2" Conduit and 3/4" Conduit
- 6' IEC320 3-wire power cord
- 2U drawer on extendable rails
- Black powder coated steel enclosure
- Included Z Bracket facilitates ease of wiring
- Includes cam lock, tamper switch and mounting hardware
- CE European Conformity
- Lifetime Warranty\*

*\*Altronix Power Supply/Charger and Sub-Assemblies only*

#### Accessories (order separately)



RE2

#### RE2 - Rack Mount Battery Enclosure

accommodates up to four (4) 12VDC/7AH batteries



WM5

#### WM5, WM25, WM100 - Magnetic Cable Tie Mounts

Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps. These are ideal for wire management in our Trove series.

## Specifications

### Power Supply/Charger (eFlow4RLB):

#### Input

|            |                    |
|------------|--------------------|
| Voltage    | 120VAC, 60Hz. 3.5A |
| Input Fuse | 5A/250V            |

#### Output

|           |  |
|-----------|--|
| Voltage   | 24VDC  |
| Current   | 4A continuous                                  |
| Auxiliary | 1A (unswitched)                                |
| Other     | Overvoltage protection. Filtered and regulated |

### Battery Charging

|                               |                              |
|-------------------------------|------------------------------|
| Type                          | Sealed lead acid or gel type |
| Failover                      | Upon AC loss, instantaneous  |
| Batteries are sold separately |                              |

### 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 (depending on the power supply)  
Prevents deep battery discharge

### Indicators (LED)

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

### Access Power Controller (ACM4):

#### Input

|            |                      |
|------------|----------------------|
| Voltage    | 24VDC from eFlow4RLB |
| Input Fuse | 10A/32V              |

#### Outputs

|  |       |
|--|-------|
| Voltage  | 24VDC |
| Four (4) independently controlled fused outputs: |       |
| a) Fail-Safe and/or Fail-Secure power outputs    |       |
| Form "C" Relays rated 28VAC or VDC @ 2.5A        |       |
| b) Auxiliary power outputs (unswitched)          |       |
| c) Any combination of the above                  |       |

|              |        |
|--------------|--------|
| Output Fuses | 3A/32V |
|--------------|--------|

### Indicators (LED)

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

### T1RSH1F4 Kit:

#### Agency Listings

|    |                     |
|----|---------------------|
| CE | European Conformity |
|----|---------------------|

### Physical and Environmental:

#### Dimensions (H x W x D):

Modular 2U standard EIA 19" rack mount chassis  
Enclosure: 3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)  
Shipping: 31" x 23" x 8.25" (787.4mm x 584.2mm x 209.6mm)

#### Weights (approx.):

|           |                   |
|-----------|-------------------|
| Product:  | 20 lb. (9.07 kg)  |
| Shipping: | 25 lb. (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) |

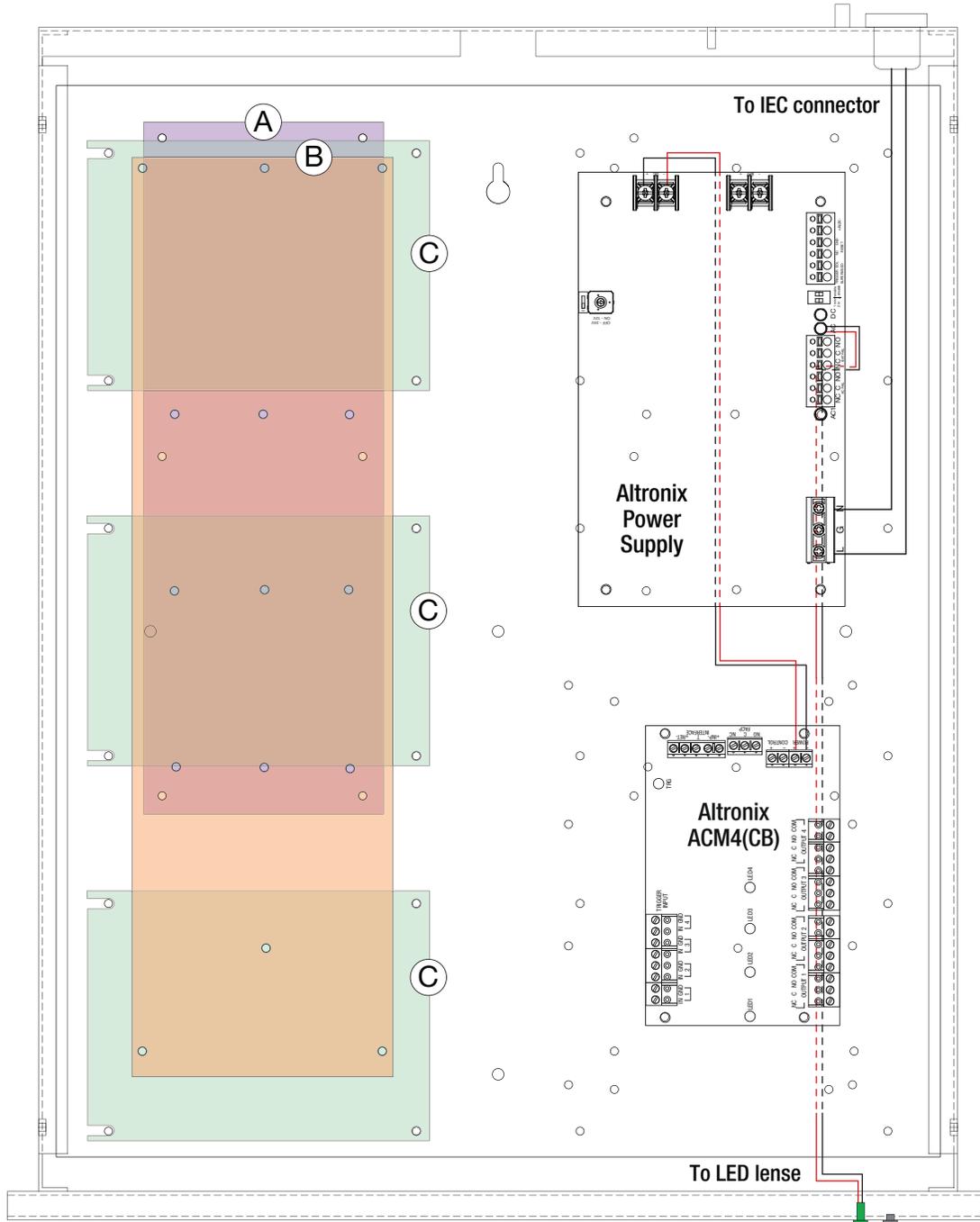
#### Relative Humidity

85% +/- 5%

BTU/Hr.: 53 BTU/Hr.

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

| Software House                    | Pem Mounting |
|-----------------------------------|--------------|
| iStar Ultra ACM SE, iStar Pro ACM | (A)          |
| iStar Ultra ACM                   | (B)          |
| i8, R8                            | (C)          |



**Dimensions and Drawing**

Dimensions (H x W x D approximate)

13.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)

