# Altronix®
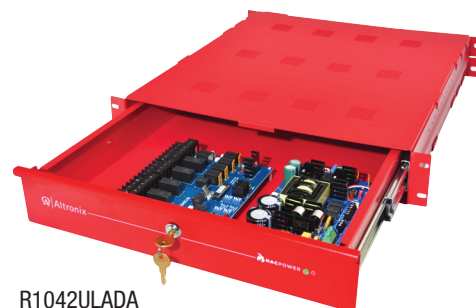
## R1042ULADA

## Rack Mountable NAC Power Extender

Altronix R1042ULADA is a space-saving 10A remote power supply/battery charger for fire signaling applications such as Notification Appliance Circuits expansion (strobes and horns) meeting ADA requirements. The rack mount drawer configuration is designed to be deployed where wall space is limited or may not be an option. R1042UALDA may be connected to any 12 or 24 volt Fire Alarm Control Panel (FACP) and also provides auxiliary power to support system accessories. This unit delivers electronically regulated and filtered 24 volt power to Class B or Class A NAC loop circuits. The 10A max. alarm current can be divided between the four (4) outputs for powering NAC devices. All outputs may be programmed for Input to Output Follower Mode (output will follow input). Two (2) FACP signaling outputs can be employed and directed to control supervision and power delivery to any combination of the four (4) outputs.
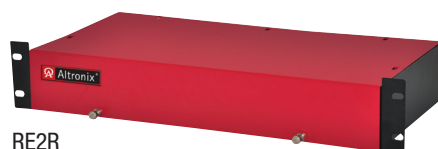
R1042ULADA

## Key Features

- Compatible with 12VDC or 24VDC fire panels

- Programmable supervised indicating circuit outputs. (Class A and Class B)

- Sync protocols include Potter/Amseco, Gentex®, System Sensor®, and CooperWheelock®

- Two (2) additional aux. outputs rated @ 1A

- Temporal Code 3, Steady Mode, Input to Output Follower Mode

- Signal circuit trouble memory

- Ground fault detection

- Built-in charger for sealed lead acid or gel type batteries

- Modular 2U standard EIA 19" rack mount chassis

## Accessories (order separately)

RE2R

RE2R -
Rack Mount Battery Enclosure
accommodates up to four (4) 12VDC/7AH batteries

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## Specifications

### Input

| | |
|---|---|
| Voltage | 120VAC, 60Hz, 5A |
| | Two (2) Class A or two (2) Class B inputs |
| | Two (2) NC dry contact trigger inputs |
| **Input Ratings (INP1 and INP2):** | |
| | 8-30VDC 6.5mA max from FACP |
| | 12V 6.5mA, 24V 6.5mA from FACP |

### Output

| | |
|---|---|
| Voltage | 24VDC power-limited outputs |
| Current | 10A max. total alarm current |
| | 2.5A max. current per output |
| Auxiliary | Two auxiliary outputs rated at 1A each |
| | (1A continuous, 1A AC disconnect) |
| Other | Thermal and short circuit protection with auto reset |
| | Filtered and regulated outputs |
| **Programmable Supervised Indicating Circuit Outputs:** | |
| | Four (4) Class B, or Four (4) Class A, or Two (2) and Two (2) Class B |

### 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 |

### Indicators (LED)

| | |
|---|---|
| AC Power (Green) | Input voltage is present |
| DC Output (Red) | Powered |
| Logic Board (Red and Green) | Output status |

### Agency Listings

| | |
|---|---|
| UL | UL864 (Control Units and Accessories for Fire Systems) |
| FM | Factory Mutual Approved |
| CSFM | California State Fire Marshal Approved |

### Special Features

- 2-wire horn/strobe Sync mode allows audible notification appliances (horns) and visual notification appliances (strobes) to be silenced/deactivated at the same time
- Sync protocols include Potter/Amseco, Gentex®, System Sensor®, and CooperWheelock®
- Temporal Code 3, Steady Mode, Input to Output Follower Mode (maintains synchronization of notification appliances circuit)
- Compatible with 12VDC or 24VDC fire panels
- Output loop supervision steered to Input 1 or Input 2
- Signal circuit trouble memory (helps identify intermittent loop problems)
- Common trouble input and output for external trouble signals tie-in
- Ground fault detection

### 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)

**Weight (approx.)**

| | |
|---|---|
| Product: | 20 lb. (9.07 kg) |
| Shipping: | 25 lb. (11.34 kg) |

**Temperature**

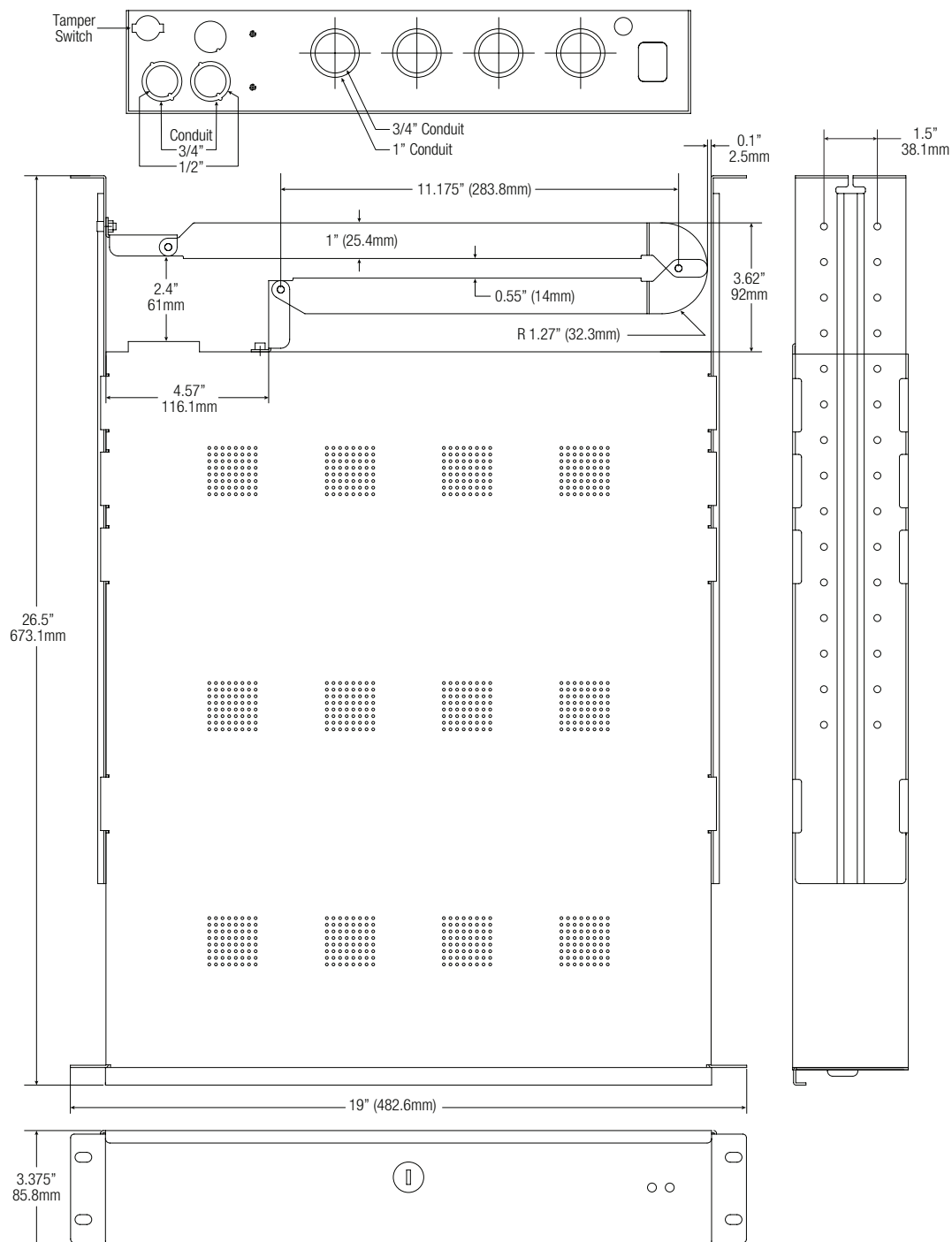| | |
|---|---|
| Operating: | 0ºC to 49ºC (32ºF to 120ºF) |
| Storage: | – 20ºC to 70ºC (– 4ºF to 158ºF) |
| Relative Humidity | 85% +/– 5% |
| BTU/Hr. (approx.): | 49 BTU/Hr. |

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## R1042ULADA
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## 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)

Tamper Switch

Conduit
3/4"
1/2"

3/4" Conduit
1" Conduit

0.1"
2.5mm

1.5"
38.1mm

11.175" (283.8mm)

1" (25.4mm)

2.4"
61mm

0.55" (14mm)

3.62"
92mm

R 1.27" (32.3mm)

4.57"
116.1mm

26.5"
673.1mm

19" (482.6mm)

3.375"
85.8mm