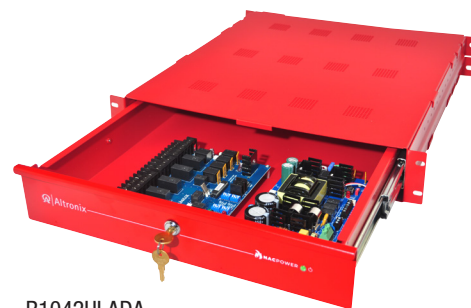# Altronix®

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.
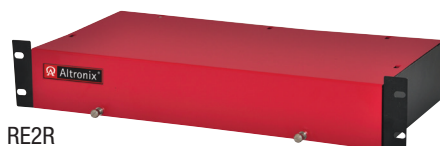
R1042ULADA

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.

Back-up Battery *(not included)*

Type
Sealed lead acid or gel type.

Failover
Upon AC loss, instantaneous.

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.
3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm).

Weights:

Product
20 lbs. (9.07 kg).

Shipping
25 lbs. (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.):
31 BTU/Hr.