

# AL1002ADA220

## NAC Power Extender

### Description

AL1002ADA220 is an extremely cost effective voltage regulated remote NAC Power Extender. It may be connected to any 24 volt Fire Alarm Control Panel (FACP). Primary applications include Notification Appliance Circuit (NAC) expansion (supports ADA requirements) and providing auxiliary power to support system accessories.



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### Specifications

#### Input

**Voltage** 220VAC (operating range 198VAC - 256VAC), 50/60 Hz, 2.5A.  
Two (2) Class A, Style Z or two (2) Class B, Style W, X, Y FACP inputs.  
Two (2) NC dry contact trigger inputs.

#### Output

**Voltage** 24VDC.  
**Current** 10A max. total alarm current.  
2.5A max. current per output.  
Two (2) outputs may be paralleled for more power on an indicating circuit.  
**Auxiliary** 1A.  
**Other** Thermal and short circuit protection with auto reset.  
Filtered and regulated outputs.

#### Programmable Supervised Indicating Circuit Outputs:

Four (4) Class B, Style W, X, Y, or Two (2) Class A, Style Z or  
One (1) Class A, Style Z and Two (2) Class B, Style W, X, Y.

#### 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.

#### Special Features

- 2-wire horn/strobe Sync mode allows audible notification appliances (horns) to be silenced while visual notification appliances (strobes) continue to operate.
- Sync protocols include Potter/Amseco, Faraday, 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)

15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).  
Enclosure accommodates up to two (2) 12VDC/12AH batteries.

**Product Weight** 12 lbs. (5.44 kg).

**Shipping Weight** 13.3 lbs. (6.03 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. (approx.):** 31 BTU/Hr.