

# AL1002WAL NAC Power Extender (10 A)

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Invented for life



- ▶ Two (2) Class A or four (4) Class B outputs
- ▶ Input to Output Follower mode maintains synchronization of NAC devices
- ▶ AC Fail, Low Battery, and Battery Presence supervision
- ▶ LEDs indicate prior fault on one or more signaling circuit outputs
- ▶ One auxiliary power output (1 A supply current) with battery backup

The AL1002WAL NAC Power Extender is a cost-effective 10 A remote power supply and battery charger that can be connected to any 12 VDC or 24 VDC fire alarm control panel (FACP). Its primary application is to provide notification appliance circuit (NAC) expansion support that meets Americans with Disabilities Act (ADA) requirements. It can also be used to provide auxiliary power to support system accessories.

## Functions

### Battery Backup

There is a built-in charger for sealed lead-acid or gel-type batteries. The enclosure has room for two 12 VDC, 12 Ah batteries. If AC fails, there is automatic switchover (with zero voltage drop on switchover) to standby battery.

### Inputs

Power input is 120 VAC, 60 Hz, 5 A. There are two normally-closed (NC) dry contact trigger inputs. The unit is equipped for two Class A or two Class B FACP inputs.

### NAC Loop Supervision

In non-alarm conditions, independent loop supervision for Class A and/or Class B FACP NACs is provided. In the event of a loop trouble, the FACP is notified by the steered input (input 1 or input 2). In addition, there are common trouble output terminals (NC, C, NO) that are used to indicate general loop or system trouble. A common trouble input is provided for optional normally-closed (NC) devices to report trouble to the FACP. Two FACP signaling outputs can be employed and directed to control supervision and power delivery to any combination of the four outputs.

### Outputs

The AL1002WAL delivers electronically regulated and filtered 24 V power to Class B or Class A NAC loop circuits. Additionally, a separate 1.0 A auxiliary output for four-wire smoke detectors is available. The 10 A maximum alarm current can be divided among the four outputs for powering NAC devices. Each output is rated at 2.5 A maximum. The outputs are Class 2 rated power-limited outputs with auto reset thermal and short-circuit protection.

**Output Programming**

Each output can be independently programmed for Steady, Temporal Code 3, or Strobe synchronization. All outputs can be programmed for Input to Output Follower mode.

**Paralleling Outputs**

An individual output of 4 A can be obtained by paralleling two outputs.

**Horn and Strobe Synchronization**

The two-wire synchronization mode works with the Gentex Commander GOS Sync Mode 3, 4 and ST/HS series; the System Sensor SpectrAlert series of horns, strobes, and horn strobe combinations; and Cooper Wheelock horns, strobes, and horn strobe combinations to provide a means of synchronizing the temporal-coded horns, synchronizing the flash timing of the strobe, and silencing the horns of the horn strobe combination over a two-wire circuit while leaving the strobes active.

**Notice**

The AL1002WAL will synchronize only the horns, horn strobes and strobes that contain synchronization capability.

**Certifications and approvals**

Altronix Corp. holds these Listings and Approvals:

NFPA      Complies with NFPA 72

Region	Certification	
USA	UL	UOXX: Control Unit Accessories, System (UL864)
	FM	AL1002WAL
	CSFM	see our website
	NYC-MEA	220-95-E, Vol. 11

**Parts included**

Quant.	Component
1	NAC power extender
1	AL800LGK9E Logic Board
1	Enclosure (red)
1	Cam lock
1	Set of battery leads
1	Hardware pack
1	Literature pack

**Technical specifications****Mechanical Properties**

Dimensions:	15.5 in. high x 12 in. wide x 4.5 in. deep (39.4 cm high x 30.5 cm wide x 11.4 cm deep)
Weight:	17 lbs (7.7 kg)

**Trademarks**

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

**Ordering information****AL1002WAL NAC Power Extender (10 A)**

10 A remote power supply/battery charger that can be connected to any 12 VDC or 24 VDC FACP  
Order number **AL1002WAL**

**Accessories****AL800LGK9E Logic Board**

Replacement board used with the AL802-WAL or AL1002WAL NAC Power Extenders; mounts in enclosure  
Order number **AL800LGK9E**

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