

## SERIES 3 MODEL AR-3 AC POWERED REPEATER



### OVERVIEW

The Model AR-3 Repeater is an addressable bi-directional repeater used to form a cellular reception network which receives, screens, verifies, and retransmits low power radio signals from other CWSI wireless initiating devices, repeaters and control panels. In addition to providing RF signaling within the installation, the AR-3 provides supervised addressable NACs (Notification Appliance Circuits). It incorporates dual receiver technology and utilizes FHSS (Frequency Hopping Spread Spectrum) signaling technology to assure a secure and reliable fire alarm network.

With bi-directional communications, the repeater can retransmit RF command signals from the control panel to activate its NACs and relays. The AR-3 NACs and optional relays are field programmable at the CP-3000 Control Panel making site specific changes both easy and cost effective. The Model AR-3 NACs are field selectable both for 12 or 24 volt DC and Class A or B operation. Models RB-10, RB-20, RB-30, RB-40 Relay Boxes are available containing 10 to 40 dry contact programmable relays. These Relay Boxes can be connected to the AR-3 providing up to 40 dry contact relay outputs.

The Model AR-3 offers supervised output features such as interfacing capabilities to auxiliary equipment, activation and powering of notification appliance circuits, control functions such as elevator recall, HVAC control, door closures, and interfacing to voice systems to name a few.

### FEATURES

- **UL 864 9th Edition Listed**
- Bi-Directional RF communication
- 900 MHz Frequency Hopping Spread Spectrum format
- CRC data validation
- Dual transceiver design
- 60 hour battery standby time
- **Field programmable Special Application and Regulated NACs:**
  - Special Application NACs:** Programmable Non Power Limited. 1 Class "A" (Style Z) or 2 Class "B" (Style Y) Field selectable
  - Class A ratings: 12 Volts DC @ 1.75 Amps or 24 Volts DC @ 1 Amp
  - Class B ratings: 12 Volts DC @ 1.75 Amps each or 24 Volts DC @ 1 Amp each
  - Regulated NACs:** Programmable Non Power Limited. 1 Class "A" (Style Z) or 2 Class "B" (Style Y) Field selectable
  - Class A ratings: 12 Volts DC @ 175 Milliamps or 24 Volts DC @ 100 Milliamps
  - Class B ratings: 12 Volts DC @ 175 Milliamps each or 24 Volts DC @ 100 Milliamps
- Wireless activation of NACs and relays



UL Listed | NFPA Approved | CSFM Approved | NY Fire Department Approved

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### SPECIFICATIONS

- Power Source: 120 VAC 60Hz 4 Amp dedicated circuit
- Battery Type: Two 12Vdc 4Ah sealed lead acid batteries connected in series for up to 60 hours standby operation
- Dry Contact Relays:  
Available when optional model RB-10, 20, 30 or 40 Relay Box is connected to the AR-3. All relay outputs are programmable and rated for 24 Vdc @ 1Amp. The number after RB indicates the number of outputs provided.
- Transceiver Operating Frequency: 900 MHz band
- Antenna Type: Omni
- Enclosure: Powder coated 18 gauge steel
- Transmission: Complies with FCC Part 15
- Test Transmission: 200 Second Supervisory Polling
- Compatibility: Commercial Wireless Systems International, LLC Model CP-3000



Height 10" | Width 10" | Depth 3.25" | Weight 14 lbs.