

A101 Alarmed Exit Device Installation Guide

Overview

The Arm-A-Dor A101 is an alarmed exit device that mounts on fire-rated exit doors and sounds an audible alarm when the door opens. This guide covers installation, wiring, battery backup, and testing procedures.

Components Included

- Door Unit:** Main alarm housing with push bar and sounder
- Mounting Bracket:** Floor-mounted or frame-mounted attachment
- Wiring Harness:** Connection to annunciator or monitoring system
- Battery Pack:** 6V alkaline cell for autonomous operation
- Mounting Template:** Paper template for drilling guide holes
- Installation Manual:** Detailed drawings and specifications

Pre-Installation Steps

- Step 1:** Verify door is 36-42 inches wide and fire-rated
- Step 2:** Confirm adequate clearance (6 inches above door frame for sensor)
- Step 3:** Check for interference with existing hardware (panic bars, closers)
- Step 4:** Plan wiring path to annunciator or alarm panel
- Step 5:** Verify power supply availability if remote monitoring required

Mounting Procedure

Step	Action
1	Tape mounting template to door at proper height (typically 40 inches from floor)
2	Mark drilling locations per template (2-3 pilot holes, center line marked)
3	Drill guide holes with 1/4" bit to 2-3 inch depth
4	Position main unit with 2-3 wood screws (do not fully tighten)
5	Align with door edge using level (must be perfectly plumb)
6	Tighten all mounting screws sequentially to avoid binding
7	Install door-contact magnetic switch on opposite frame at same height
8	Verify 1/8" - 1/4" gap between switch and magnet when door closed

Wiring to Annunciator

The A101 connects to an annunciator (remote buzzer/sounder) or access control system via 2-wire connection. Typical wiring uses 18-22 gauge twisted pair cable run through conduit.

Autonomous Mode (No Annunciator): Built-in 85dB sounder activates immediately
Wired Mode: Signal sent to remote annunciator at building entrance or security office
Panel Integration: Can wire to access control system for logging and email alerts

Battery Backup Configuration

Battery Type: 6V alkaline (4 AA cells in series)
Expected Life: 1-2 years (dependent on alarm frequency)
Installation: Slide battery pack into housing; verify light LED illuminates
Maintenance: Replace batteries annually or when LED dims
Testing: Press alarm test button monthly to verify sounder and LED function

Testing Procedure

Function Test: Open door fully - alarm should sound within 1 second and continue for minimum 30 seconds
Silence Test: Push test button to silence alarm; unit should restore to armed state within 10 seconds
Battery Test: Observe LED brightness; replace if dim
Magnet Test: Move magnet 2 feet away; alarm should trigger
Frequency Test: Verify sounder is minimum 85dB with sound meter
Integration Test: If connected to panel, verify alarm signal received and logged

Installation Checklist

Task	Completed
Verify door is fire-rated	
Measure and mark template positions	
Mount main alarm unit plumb and level	
Install magnetic door switch	
Connect wiring to annunciator	
Install and test battery pack	
Perform function test (open door)	
Verify annunciator receives signal	
Test 85dB sounder volume	
Document installation date and battery	