

# ACCUTECH 700026

## Central Alarm Speaker | Central Security Infrastructure & Acoustic Notification Component

### PRODUCT OVERVIEW

The Accutech 700026 Central Alarm Speaker serves as a core hardware intelligence component within advanced wandering management and resident safety infrastructures. It is engineered to bridge the gap between physical perimeter sensors deployed at facility exits and localized control monitoring stations. By aggregating and processing automated security credentials and high-speed data telemetry from central tone generators and control equipment, it eliminates the operational complexity of managing individual entry points. This centralized topology ensures that small to medium-scale senior care, nursing home, memory care, and hospital facilities maintain instantaneous, real-time situational awareness during active wandering or emergency events.

Deployed directly between peripheral zone controllers, transmitter wands, door controllers, and central administration frameworks, the 700026 module channels complex serial data traffic. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as multi-tone emergency broadcast, secure visitor access, and localized security overrides—are instantly synchronized with perimeter sensors. This active tracking processing ensures absolute protection across localized hospital wings, dedicated care facility corridors, and high-risk resident zones by establishing an uncompressed, bidirectional data pipeline for acoustic signal programming, real-time diagnostics, and unified event logging while driving a visual zone matrix to map multi-door elopement alerts across distinct facility points.

### ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 700026 Central Alarm Speaker to act as the primary visual status and monitoring interface bridging the peripheral exit networks and the main nurse workstation location. The hardware must support bidirectional communication to synchronize active bypass states, zone alarms, and real-time controller logs directly with the host computer software.
- **Healthcare Environment Protection:** The multi-zone indicator display assembly shall incorporate a durable, commercial-grade structural design explicitly engineered to sustain continuous clinical exposure, operating reliably across standard high-traffic healthcare IT environments.
- **Access and Control:** The device's physical data interface shall feature automated data direction control paths to allow authorized clinical staff, security personnel, and system administrators to issue network-wide bypass commands, hardware configuration adjustments, and alarm resets from the central software console.
- **Enclosure and Durability:** The graphic indicator assembly shall be protected inside a compact, ruggedized commercial-grade enclosure case optimized for clean surface or flush wall mounting directly within administrative spaces, reception corridors, or command hubs.
- **System Interoperability:** The panel display architecture must feature validated native compatibility for direct connection with Accutech wander management systems, ensuring non-latent zone signaling and localized alarm tracking across the facility's dedicated security network.

## SYSTEM COMPONENTS

The 700026 Central Alarm Speaker incorporates several fundamental integrated sub-modules and physical connection layouts:

- **High-Fidelity 8-Ohm Acoustic Driver Element:** The primary internal loudspeaker component engineered to convert electrical signaling frequencies into clean, highly intelligible multi-tone acoustic alarm sequences.
- **Integrated Variable Potentiometer Board:** A board-level volume control mechanism allowing on-site technical installers to scale output levels perfectly matching the surrounding acoustic architecture.
- **Multi-Speaker Commutation Node Bus:** Built-in physical bridging ports engineered to seamlessly parallel up to five (5) total speaker units down into a unified central master notification array.
- **Transient Voltage & Signal Isolation Array:** Internal safety circuitry engineered to isolate delicate internal microchip components from data line surges, grounding faults, and electrostatic discharge (ESD).
- **Architectural Low-Profile Chassis Mount:** A highly stable, commercial-grade impact housing optimized for interior placement, securing internal cabling layouts against intentional tampering or environmental stress.

## FEATURES AND BENEFITS

- **Centralized Acoustic Status Broadcast:** Consolidates independent peripheral zone controller channels down to a single visual interface panel connection on the administration server, delivering multi-tone alerts matching specific security events.
- **Intelligent Multi-Tone Alarm Mapping:** Dynamically translates complex digital alarm signals into up to eight (8) distinct audio tones, allowing staff to distinguish between simple door ajar states and immediate resident elopement actions.
- **Local Environmental Attenuation Control:** Minimizes operational fatigue and prevents clinical ambient disruptions by supporting direct hardware volume dampening to adapt to low-noise memory care wings or loud corridors.
- **Expanded Multi-Point Array Scaling:** Enables wide enterprise deployment footprints by supporting up to five (5) distributed audio speakers driven simultaneously from a single tone controller.
- **Diagnostic Sound Pathway Routing:** Integrates seamlessly with board-level parameters to provide immediate audible feedback regarding system loop continuity, network power presence, and driver assembly integrity.
- **Validated Platform Interoperability:** Engineered for native plug-and-play compatibility with Accutech ResidentGuard security networks, ensuring a unified approach to facility patient protection.

## PRODUCT SPECIFICATION

### Manufacturer

Accutech Healthcare Security Solutions

### Product Model Name

Central Alarm Speaker

### Part Number / SKU

700026

### Component Technology Type

Central Multi-Zone Visual Status Monitoring Interface & Mapping Panel

### Speaker Audio Impedance

8-Ohms Standard Matching Load

**Tone Array Capacity**

Capable of Handling up to 8 Distinct Programmed Alert Sounds / Tones

**System Expansion Limit**

Supports up to 5 Shared Acoustic Speakers on a Single Driver Loop

**Device Interface Port**

Heavy-Duty Industrial Mechanical Screw Terminal Connection Blocks

**Operational Enclosure Rating**

Indoor Rated Commercial Grade Assembly

**Wander System Compatibility**

Accutech ResidentGuard, Custom Zone Networks, and Central Infrastructure Hardware

**Chassis Enclosure Type**

Surface or Flush-Mount Rugged Architectural Wall Cabinet Assembly

**Primary Target Environments**

Main Nurse Stations, Reception Areas, Central Security Rooms, Corridor Hubs

## COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC regulations regarding digital device shielding. This guarantees that internal motor microprocessors, switching pathways, and high-speed data translation steps do not introduce or sustain harmful electromagnetic interference across nearby diagnostic clinical devices or patient networks.
- **UL Listing:** Developed and engineered using interior assembly components compliant with UL safety classifications for low-voltage access control locking mechanisms, information technology equipment, and auxiliary healthcare resident safety tools.
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the internal circuit layouts, external terminal components, and housing finishes strictly restrict the use of lead, mercury, polybrominated biphenyls, and other hazardous materials.