

Accutech 700035 Wander Management Zone Controller

WanderManagementZoneController | Intelligent Perimeter Protection Hub



PRODUCT OVERVIEW

The **Accutech 700035 Wander Management Zone Controller** is a localized intelligent processing hub designed exclusively for Accutech's wander management and patient safety ecosystems (such as ResidentGuard platforms). This hardware unit controls a single physical monitoring zone—typically a door, elevator, or corridor threshold—and serves as the critical logic decision-maker at the perimeter edge.

By continually monitoring local antenna fields, processing active 418 MHz RFID tag telemetry, and managing door-interlock relays, the 700035 provides standalone, localized security while transmitting clean event data upstream to master control panels or centralized software suites.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **Standalone Control Logic:** The controller must possess localized processing intelligence to independently manage alarm logic, magnetic locks, and bypass switches even in the event of a network loss to the central software.
- **Signal Supervision:** The unit shall continuously monitor the surrounding space using localized receivers, detecting supervised 418 MHz patient tag transmissions immediately upon perimeter boundary encroachment.
- **Relay Configuration:** The hardware must integrate programmable Form C relays capable of directly managing magnetic door holders, auxiliary local warning strobes, and facility nurse call interfaces.
- **Egress Coordination:** The controller must provide dedicated dry-contact inputs for keypad bypass controllers, passive infrared motion exit sensors, and fire alarm override signals.

SYSTEM COMPONENTS

The 700035 Zone Controller orchestrates localized edge actions with the following network elements:

- **Local Processor Unit:** The Accutech 700035 Zone Controller module board and enclosure.
- **Perimeter Antennas:** Linked exciters/transceivers mounted adjacent to the doorway to cast the RF field.
- **Wearable Patient Transmitters:** Supervised 418 MHz RFID tags worn by residents or pediatric patients.
- **Local Egress Control:** Keypads for authorized escort bypass and magnetic locking hardware.
- **Upstream Interface:** Home-run wiring to multi-zone multiplexers (e.g., 770177 / 770277) or centralized PC monitoring stations.

FEATURES AND BENEFITS

- **Standalone Fail-Safe Operations:** Localized logic ensures that even if facility-wide IT servers go offline, the zone controller maintains full perimeter security, alarming, and lock control.
- **Configurable Detection Zones:** Allows adjustable range parameters via tuning adjustments to accommodate specific corridor widths and exit structural limits.
- **Flexible System Integration:** Form C output relays allow standard physical tie-ins to almost any existing legacy nurse call system or external building automation platform.
- **Escort Bypass Management:** Direct integration with entry/exit keypads enables authorized staff to transport monitored residents without generating a false alarm.
- **Integrated Diagnostic LEDs:** Built-in diagnostic visual indicators provide rapid field troubleshooting regarding power status, RF noise, and relay activation.

PRODUCT SPECIFICATION

Manufacturer	Accutech Security (An ICS Company)
Product Model	Wander Management Zone Controller
Part Number / SKU	700035
Operating Frequency	Supervised 418 MHz RF Field Processing
Input Power Requirements	12V DC to 24V DC Low-Voltage Input
Relay Ratings	Form C Dry Contacts (Configurable)
System Profile Compatibility	ResidentGuard, Cuddles, and FacilityGuard Architectures
Enclosure Type	Surface-mount industrial grade layout

COMPLIANCE AND CERTIFICATION

- **NFPA 101 (Life Safety Code):** Compliant with international egress standards, dropping mag-lock power lines instantaneously upon fire panel input activation.
- **FCC Part 15 Class A:** Certified to restrict unwanted radio frequency emissions, preventing interference with surrounding specialized hospital telemetry gear.
- **UL / ETL Equivalent:** Assured for long-term placement within institutional low-voltage systems and clinical physical facilities.
- **National Electrical Code (NEC):** Rated for installation adhering strictly to standard Class 2 power-limited wiring environments.