ACCUTECH 800128 LC1400T HALLWAY/ELEVATOR KIT

Hallway and Elevator Controller Kit | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 800128 LC1400T Hallway/Elevator Kit 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 active RFID signals from tracking wristbands directly at critical transit choke points, it eliminates the operational complexity of managing individual zones. This centralized topology ensures that large-scale senior care, nursing home, memory care, and hospital facilities maintain instantaneous, real-time situational awareness.

Deployed directly at primary elevator lobbies, structural hallways, and restricted intersection zones, the 800128 kit channels specialized tracking telemetry and elevator deactivation overrides. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as automated elevator cab disabling, authorized staff bypass, secure visitor access, and localized security overrides—are instantly synchronized with perimeter sensors during a wandering or elopement event. This active tracking processing ensures absolute protection across expansive hospital wings, long care facility corridors, and high-risk resident areas by safeguarding exposed external egress routes and elevator transit pathways from environmental wear and unauthorized passage.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 800128 LC1400T Hallway/Elevator Kit to act as the primary external security access control and localized override node for elevator cab and structural corridor perimeters. The hardware bundle must support direct RFID signal receiving configurations to monitor resident wristbands and synchronize active perimeter bypass states directly with peripheral zone systems.
- **Healthcare Environment Protection:** The hallway and elevator monitoring assembly shall incorporate a durable, commercial-grade structural design explicitly engineered to sustain continuous clinical exposure, operating reliably across standard high-traffic healthcare environments.
- **Access and Control:** The device physical interface shall feature a heavy-duty master controller logic board and matched relay signaling elements to allow authorized clinical staff, security personnel, and facility supervisors to pass freely, execute localized elevator deactivation overrides, and process alarm resets directly at the security boundary.

- **Enclosure and Durability:** The primary computing backplane and peripheral transmission coils shall be protected inside ruggedized, vandal-resistant commercial-grade housings optimized for flush-mount or surface-mount terminal configurations on walls, elevator frames, or structural headers.
- **System Interoperability:** The hallway/elevator kit architecture must feature validated native compatibility for dry-contact and network-addressable connections, ensuring non-latent signaling, direct elevator cab relay integration, and secure credential validation across the facility's dedicated security networks.

SYSTEM COMPONENTS

The 800128 LC1400T Hallway/Elevator Kit configuration incorporates several fundamental integrated sub-modules and physical connection layouts:

- **LC1400T Master Controller Backplane:** The primary internal multi-layer computing, logic control, and command processing board configured to run low-latency firmware and evaluate incoming sensor credentials.
- **Primary TX Transmitter Coil Assembly:** A heavy-duty, high-performance master induction antenna housed in a protective shell dedicated to broadcasting the initial tracking excitation zone over the primary hallway or elevator entry portal.
- **Dedicated Elevator/Transit Interface Relay Board:** An integrated low-resistance multi-relay terminal block pathways designed for clean, reliable power and hardwired circuit integration with elevator control cabs, traveling cables, and calling panels.
- **High-Speed RS485 Interface Port:** A ruggedized internal serial communication block dedicated to routing real-time telemetry, alarm statuses, and integration commands to host networks or call bells.
- **Fire-Retardant Vacuum-Molded Case:** A lightweight, commercial-grade impact-resistant ABS composite outer enclosure providing structural drop protection, clean surface aesthetics, and secure hardware mounting.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates hallway boundaries, elevator lobby tracking data, and local entry/exit points down to a single compact focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Specialized Transit Choke-Point Monitoring:** Engineered specifically with matched hardware elements to provide a tight, seamless radio frequency excitation zone across hallway corridors and elevator frames, preventing bypass or blind spots.
- **Automated Elevator Cab Interlocking:** Features specialized internal relay processing logic to automatically disable elevator calling panels or restrict floor travel options when an active resident tag enters the detection field.
- **Workflow Workload Reduction:** Built using dependable, industrial-grade structural components that automate acoustic and visual notification processing, minimizing manual checking steps and lowering overall healthcare workspace hazards.
- **Validated System Interoperability:** Engineered for total out-of-the-box compatibility with established Accutech LC1400T and ResidentGuard security environments, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	LC1400T Hallway/Elevator Controller & Antenna Kit
Part Number / SKU	800128
Kit Configuration Matrix	Includes (1) LC1400T Controller, (1) Polycarb TX Antenna, and Specialized Elevator Interface Relays

Core Functionality	Standalone Transit Perimeter Monitor, Elevator Cab Access Control, and Wandering Alert Processor
Transmit Signal Frequency	Nominal 131 kHz (129-137 kHz for Stagger Tuning)
Receive Signal Frequency	418 MHz
Effective Detection Radius	Generates a Comprehensive 360° Field Coverage Up to 10 Feet
Operating Input Voltage	12 to 24 VDC / VAC Low-Voltage Power Inputs
Interface Link Mechanism	Dedicated Low-Resistance Form-C Dry Contact Relays for Power, Ground, and Elevator Cab Control Paths
Communication Protocol	High-Speed RS485 Interface Bus
Data Baud Rate	115200 bps
Wander System Compatibility	Accutech ResidentGuard and LC1400T Series Access Environments
Chassis Construction	High-Impact, Heavy-Duty Industrial Commercial-Grade ABS & Polycarbonate Polymers
Primary Target Environments	Elevator Lobbies, Main Passenger Elevators, Structural Hallway Intersections, Restricted Transit Corridors

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC Part 15 regulations regarding digital device shielding. This guarantees that multi-zone switching, elevator relay steps, and dual-antenna transmission loops do not cause or sustain harmful electromagnetic interference with nearby diagnostic medical devices or critical patient networks.
- **UL Listing:** Engineered and assembled using components compliant with UL safety classifications for low-voltage signal appliances, exterior access control equipment, and healthcare facility alert instrumentation.
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the assembly, internal master control boards, secondary antennas, and interconnect cabling configurations restrict the use of lead, mercury, and other hazardous materials.