ACCUTECH 800126 LC1400T SINGLE DOOR KIT

Single Door Controller and Tx Antenna Kit | Centralized Wander Management Infrastructure Hub



PRODUCT OVERVIEW

The Accutech 800126 LC1400T Single Door 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 RF tracking loops across a single dedicated entryway boundary, it eliminates the operational complexity of managing individual entry points. 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 single-door exit corridors, standard facility entryways, and restricted single-leaf access zones, the 800126 kit channels streamlined tracking telemetry and focused zone monitoring configurations. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as 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 infant protection zones by safeguarding exposed external egress routes from environmental wear and unauthorized passage.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 800126 LC1400T Single Door Kit to act as the primary external security access control and localized override node for single-door perimeters. The hardware must support direct integration configurations to synchronize active bypass states and single-leaf entry metrics directly with peripheral zone controllers.
- **Healthcare Environment Protection:** The single-door control panel and transceiver assembly shall incorporate a durable, commercial-grade structural design explicitly engineered to sustain continuous clinical exposure, operating reliably across extreme temperature variations, direct moisture impacts, and high-humidity indoor settings.
- **Access and Control:** The device physical interface shall feature a heavy-duty master controller logic board and matched transmission elements to allow authorized clinical staff, security personnel, and facility supervisors to execute localized door bypass commands, single-leaf locking overrides, and alarm resets directly at the security boundary.

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- **Enclosure and Durability:** The primary computing backplane and single transmission coil shall be protected inside ruggedized, vandal-resistant commercial-grade housings optimized for flush-mount or surface-mount terminal configurations on walls or overhead structural headers.
- **System Interoperability:** The single-door kit architecture must feature validated native compatibility for direct low-voltage data connection with Accutech environmental safety platforms, ensuring non-latent signaling and secure credential validation across the facility's dedicated security network.

SYSTEM COMPONENTS

The 800126 LC1400T Single Door Kit incorporates several fundamental integrated sub-modules and physical connection layouts:

- **LC1400T Master Controller Backplane:** The primary internal multi-layer processing, scheduling, and logic control circuit board coated with protective compounds to isolate electronic paths from moisture and dust intrusion.
- **Primary TX Transmitter Coil Assembly:** A heavy-duty, high-performance master induction antenna housed in a protective polycarbonate shell dedicated to broadcasting the targeted tracking excitation zone over the door leaf.
- **Form-C Relay Lock/Alarm Interfaces:** Integrated low-resistance multi-relay terminal paths designed for clean, reliable power and hardwired circuit integration with magnetic locks, status switches, and local annunciators.
- **Low-Voltage Hardware Backplane:** Multi-position mechanical wiring terminal block layout designed for clean, reliable power routing, ground loops, and hardwired signal line termination.
- **Vandal-Resistant Enclosure Shells:** Heavy-duty commercial-grade impact-resistant structural housings providing absolute physical protection and low-profile installation surfaces for single-door frames.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates single-door frame lock configurations and single-leaf exit tracking states down to a single monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Focused Single-Leaf Coverage:** Engineered specifically with a dedicated transmission array to provide a seamless radio frequency excitation zone across a standard single-door exit without adjacent dead zones.
- **Smart Lock Coordination:** Features automated processing logic to coordinate magnetic locks and door status switches simultaneously, preventing independent door failures or perimeter alignment gaps.
- **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 LC1400 and ResidentGuard security environments, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	LC1400T Single Door Controller & Antenna Kit
Part Number / SKU	800126
Kit Configuration Matrix	Includes (1) LC1400T Controller, (1) Polycarb TX Antenna, and Structural Interconnect Cables
Component Technology Type	Single-Leaf Low-Frequency Exciter & RF Security Control System

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Enclosure Protection Rating	Tamper-Resistant Structural Polycarbonate Housing / Indoor Environmental Seals
Operating Input Voltage	12 to 24 VDC / VAC Low-Voltage Power Inputs
Interface Link Mechanism	Hardwired Screw-Terminal Compression Blocks for Power, Ground, and Auxiliary I/O Relays
Wander System Compatibility	Accutech ResidentGuard and LC1400 Series Access Environments
Chassis Construction	High-Impact, Heavy-Duty Industrial Commercial-Grade ABS & Polycarbonate Polymers
Primary Target Environments	Main Single-Door Standard Exits, Cross-Corridor Patient Doors, Stairwell Service Entrances

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC Part 15 regulations regarding digital device shielding. This guarantees that multi-zone switching and single-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.