ACCUTECH 650214

LS2400 Gate Kit Without Keypad | Perimeter Protection & Gate Wander Management Assembly

PRODUCT OVERVIEW

The Accutech 650214 LS2400 Gate Kit Without Keypad 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 specialized outdoor gate boundaries, courtyard exits, or structural barriers, 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.

Deployed directly between peripheral zone controllers, transmitter wands, door controllers, and central administration frameworks, the 650214 module channels complex serial data traffic. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as 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 system 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 650214 LS2400 Gate Kit Without Keypad 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 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.

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SYSTEM COMPONENTS

The 650214 LS2400 Gate Kit Without Keypad incorporates several fundamental integrated sub-modules and physical connection layouts:

- **Central Control Unit Module:** The primary internal multi-layer integrated circuit board dedicated to handling automated zone identification, status indexing, and bidirectional network mapping protocols across a single door perimeter.
- **Transmit (Tx) Antenna:** A dedicated performance antenna engineered to emit the active RFID field and manage signal reception across a single doorway threshold.
- **Integrated Door Contact Terminals:** Physical wiring paths designed to interface with magnetic door switches to coordinate physical door states (open/closed) with active tag tracking.
- **Local Control Keypad Assembly:** A wall-mounted digital control interface with a companion cabling framework to allow manual override, resetting, and localized configuration entry directly at the entryway threshold.
- **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).

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates independent peripheral zone controller channels down to a single visual interface panel connection on the administration server, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Seamless Protocol Conversion:** Automatically translates complex electronic security identifiers and exit triggers into an immediate localized virtual mapping layout without data packet loss or communication delays.
- **At-A-Glance Situational Mapping:** Provides immediate physical verification of active elopement risks or door violations across local wings, allowing teams to route response paths to exact exit boundaries.
- **Tamper-Resistant Non-Keypad Design:** Prevents unauthorized bypass attempts or physical vandalism at the perimeter barrier by removing the localized mechanical interface from public access points.
- **Diagnostic Status Indicators:** Features integrated board-level test parameters to provide clear visual feedback on data transmission, loop power presence, and LED integrity, streamlining troubleshooting tasks for facility maintenance teams.
- **Validated Platform Interoperability:** Engineered for native plug-and-play compatibility with Accutech security networks and software suites, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	LS2400 Gate Kit Without Keypad
Part Number / SKU	650214
Component Technology Type	Central Multi-Zone Visual Status Monitoring Interface & Mapping Panel
Monitored Zone Capacity	Selectable / Expandable Independent Exit Points

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Device Interface Port	Heavy-Duty Industrial Mechanical Screw Terminal Connection Blocks
Host Workstation Link	High-Speed Integrated Serial Communication Interface / Data Loop
Visual Diagnostic Indicators	High-Visibility Multi-LED Grid for Power, Zone State, and System Alert Verification
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.