ACCUTECH 650209

KP103 Keypad | Centralized Wander Management Infrastructure Hub

PRODUCT OVERVIEW

The Accutech 650209 KP103 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 authorization data at interior entry and exit points, 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 interior controlled exit frames, staff-only partitions, and high-risk boundary doorways, the 650209 module channels secure credential telemetry over a high-integrity communication bus. 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. This active tracking processing ensures absolute protection across expansive hospital wings, long care facility corridors, and high-risk infant protection zones by ensuring that only authorized personnel can temporarily deactivate door containment loops.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 650209 KP103 Keypad to act as the primary internal security access control and localized override node. The hardware must support direct integration configurations to synchronize active bypass states directly with peripheral zone controllers.
- **Localized Access Control:** The entry assembly shall incorporate a high-durability tactile digital matrix to allow authorized clinical staff, security personnel, and facility supervisors to execute localized door bypass commands and alarm resets directly at the boundary door frame.
- **Notification and Feedback:** The reader interface must incorporate localized multi-color LED visual arrays paired with an internal acoustic alert sounder to actively communicate distinct operational states, including authorized credential access, invalid entry attempts, and system lockout states.

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• **Enclosure and Durability:** The electronics assembly shall be protected inside a ruggedized, commercial-grade rigid housing optimized for flush-mount or surface-mount terminal configurations on standard single-gang electrical utility boxes or interior door mullions.
• **System Interoperability:** The keypad 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 650209 KP103 Keypad incorporates several fundamental integrated sub-modules and physical connection layouts:

• **Solid-State Control Logic PCB:** The primary multi-layer circuit assembly managing code entry transmission parsing, multi-color LED steering, and signal output processing.
• **Tactile Key Matrix:** Ruggedized, high-durability front keypad layout featuring crisp mechanical buttons engineered for high-frequency clinical use.
• **Heavy-Duty Relay Interface Module:** Integrated dual-state SPDT relay pathways dedicated to managing secondary electrical strikes, maglock release circuits, or local bypass triggers.
• **Low-Voltage Terminal Backplane:** Multi-position wire terminal block array designed for clean, reliable power, ground, and communication data bus line termination.
• **Secure Single-Gang Chassis:** Impact-resistant commercial-grade composite enclosure providing physical structural protection, clean faceplate snapping, and integrated grounding paths.

FEATURES AND BENEFITS

• **Centralized Access Awareness:** Consolidates remote exit bypass telemetry down to a single monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
• **Secure Local Authorization:** Restricts sensitive perimeter doors by requiring code entry, ensuring maximum prevention against unauthorized exit or resident elopement.
• **Multi-Tone Sensory Verification:** Pairs high-visibility LED status changes with an adjustable internal acoustic sounder to give staff immediate, undeniable confirmation of successful door deactivation.
• **Vandal-Resistant Interior Construction:** Built using impact-resistant structural components that safeguard internal electronic processing paths against high-traffic workspace hazards and deliberate tampering.
• **Validated Platform Interoperability:** Engineered for total compatibility out-of-the-box with established Accutech access control boards and wander management environments, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	KP103 Access Control Keypad
Part Number / SKU	650209
Credential Verification Modes	Digital PIN Code Entry Matrix
Operating Input Voltage	12V DC / 24V DC Managed Low-Voltage Control Paths
Relay Contacts Configuration	SPDT Dry Contact Relays (Form C Output Layouts)

Interface Link Mechanism	Hardwired Terminals for Power, Ground, and Signal Buses
Status Indicators	Integrated Multi-Color Status LED Arrays & Audible Piezo Beeper
Wander System Compatibility	Accutech ResidentGuard Series Access and Security Environments
Chassis Construction	Industrial Commercial-Grade Housing Assembly (Single-Gang Form)
Primary Target Environments	Hospitals, Long-Term Care, Assisted Living, Memory Care

COMPLIANCE AND CERTIFICATION

• **FCC Status:** Designed and certified to meet FCC Part 15 regulations regarding digital device shielding. This guarantees that internal logic paths 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, access control system units, interior entry keypads, and healthcare facility alert instrumentation.
• **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the assembly, internal solder joints, and electronic trace configurations restrict the use of lead, mercury, and other hazardous materials.