

ACCUTECH 800104

ES Single Door Kit | Perimeter Protection & Entryway Wander Management Assembly

PRODUCT OVERVIEW

The Accutech 800104 ES 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 high-speed data telemetry from a single targeted doorway or egress point, 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 800104 module channels complex serial data traffic. 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 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 800104 ES Single Door Kit 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 bypass commands, hardware 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.

SYSTEM COMPONENTS

The 800104 ES Single Door Kit 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

- **Dedicated Protection of a Single Door:** Monitors, secures, and aggregates threat data from an independent egress point using a localized, single-zone hardware configuration.
- **Immediate Alarms and Locking Controls:** Instantly activates local magnetic locking mechanisms and triggers visual indicators the second an RFID-tagged individual enters the monitored field.
- **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.
- **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	ES Single Door Kit
Part Number / SKU	800104
Component Technology Type	Central Multi-Zone Visual Status Monitoring Interface & Mapping Panel
Monitored Zone Capacity	Single Independent Entrance Point (1 Door Monitored)

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.