

ACCUTECH 100959

Toggle Switch Control Box | Manual Secure Door Monitoring Features for Clinical Staff

PRODUCT OVERVIEW

The Accutech 100959 Toggle Switch Control Box 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 regulating the activity of healthcare wander management systems. By aggregating and processing automated security credentials and electronic signals directly from a manual lever interface, 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 100959 module channels complex electronic signal 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 manual control point where unauthorized actions, false alarms, and accidental lockouts are made impossible.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 100959 Toggle Switch Control Box 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 manual toggle manipulation to send electronic signals directly to the system's main controller to regulate patient tracking systems.
- **Healthcare Environment Protection:** The control indicator and switch assembly shall incorporate a durable, commercial-grade structural design explicitly engineered out of solid materials to sustain continuous clinical exposure and protect against impacts, operating reliably across standard high-traffic healthcare IT environments.
- **Access and Control:** The device's physical interface shall feature automated data direction control paths via a mechanical toggle switch to allow authorized clinical staff, security personnel, and system administrators to issue zone bypass commands, stop or start system operation, and conduct localized diagnostics without risk of injury or accidental lockout.
- **Enclosure and Durability:** The toggle switch control 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 control switch panel architecture must feature validated native compatibility for direct connection with Accutech wander management systems, ensuring non-latent zone signaling, accidental lockout prevention, and localized alarm tracking across the facility's dedicated security network.

SYSTEM COMPONENTS

The 100959 Toggle Switch Control Box incorporates several fundamental integrated sub-modules and physical connection layouts:

- **Mechanical Toggle Lever Assembly:** The primary manual user interface hardware mechanism intended to switch between active monitoring, system override, and diagnostic routing states.
- **Solid-Material Enclosure Base:** A compact, impact-resistant rugged chassis housing engineered to secure internal wiring components and mount seamlessly within facility walls.
- **Electronic Signal Terminal Interface:** Internal data path connection circuitry dedicated to handling automated zone identification, status indexing, and direct bidirectional signal transmission to the main controller.
- **Control Point Limitation Ring:** Internal physical mechanical safety constraints configured to eliminate false alarms and avoid accidental lockout anomalies during high-traffic clinical usage.
- **Transient Voltage & Signal Isolation Array:** Internal safety circuitry engineered to isolate delicate internal electrical pathways from data line surges, grounding faults, and electrostatic discharge (ESD).

FEATURES AND BENEFITS

- **Manual Secure Door Monitoring:** Monitors, secures, and aggregates threat data from entryway boundaries via manual toggle tracking features designed explicitly for clinical staff.
- **Discreet In-Wall Installation:** Features a compact size that allows seamless installation within facility walls and combining it with other building infrastructure elements, protecting essential infrastructure from resident tampering.
- **Immediate Alarms and Overrides:** Instantly starts/stops system operations and triggers override protocols the second the authorized personnel interact with the manual toggle lever.
- **Accidental Lockout Protection:** Provides immediate physical verification of system state while limiting unauthorized switch points, ensuring false alarms are completely mitigated.
- **Validated Platform Interoperability:** Engineered for native plug-and-play compatibility with Accutech security networks and hardware suites, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer

Accutech Healthcare Security Solutions

Product Model Name

Toggle Switch Control Box

Part Number / SKU

100959

Component Technology Type

Manual Control Point User Interface Interface

Operation Principles Supported

System Start/Stop, Security Zone Override, Local Diagnostics

Device Controller Link

Low-Voltage Electronic Single-Signal Path Loop

Chassis Enclosure Type

Compact Flush or Surface Wall-Mount Solid Material Impact Case

Primary System Frequencies

Nurse Stations, Hallways, Secured Exits, Memory Care Facilities, Pediatrics Wings

Wander System Compatibility

Accutech Patient Tracking Systems and Central Infrastructure

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.