

ACCUTECH ACT-M2400

3101 DE Lock (Relay Built In) | Centralized Wander Management Infrastructure Hub



PRODUCT OVERVIEW

The Accutech ACT-M2400 3101 DE Lock (relay built in) 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 protected boundaries, 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 between peripheral zone controllers, transmitter wands, door controllers, and central administration frameworks, the ACT-M2400 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. When a resident wearing an active transmitter tag approaches the exit, the lock communicates with the monitoring system to automatically enforce code-compliant boundary restrictions, while its integral relay allows direct connection to external security infrastructure for unified event tracking.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech ACT-M2400 3101 DE Lock to act as the primary security and delayed egress mechanical interface bridging the peripheral door frame and the central monitoring network. The hardware must feature a built-in internal relay to synchronize localized egress states and real-time locking logs directly with auxiliary security systems without needing secondary external modules.
- **Healthcare Environment Protection:** The heavy-duty delayed egress lock assembly shall incorporate a durable, commercial-grade satin aluminum structural design explicitly engineered to sustain continuous clinical exposure, operating reliably across high-traffic healthcare environments and memory care units.
- **Access and Control:** The device's physical data interface shall feature automated sensor paths to initiate a microprocessor-controlled 15- or 30-second delayed egress countdown upon unauthorized door pressure, providing visual and acoustic notification directly to nursing and security stations.

- **Enclosure and Durability:** The locking mechanism and integrated electronic assembly shall be self-contained within a ruggedized surface-mount housing optimized for secure overhead deployment on single or double door frames.
- **System Interoperability:** The locking architecture must feature validated native compatibility for direct integration with building master fire alarm control panels, ensuring an instantaneous, fail-safe unlock sequence during local power loss or an emergency override event.

SYSTEM COMPONENTS

The ACT-M2400 3101 DE Lock incorporates several fundamental integrated sub-modules and physical connection layouts:

- **Microprocessor-Controlled Logic Board:** The primary internal multi-layer electronic circuit board dedicated to managing delayed egress countdowns, nuisance delays, and automated sensor tracking.
- **Integrated Hardware Signal Relay:** A built-in, low-resistance internal relay component configured to connect the lock directly to peripheral security networks, nurse calls, or secondary tracking devices without external wiring additions.
- **Opto-Electronic Egress Sensor Matrix:** An intelligent, non-mechanical optical tracking component engineered to sense minor door movement and trigger the delay sequence regardless of slight mechanical misalignments.
- **High-Output Audible Buzzer & Visual Indicator:** A built-in acoustic warning module and pulsating multi-color LED array that provides local status illumination during a perimeter breach attempt.
- **Heavy-Duty Armature Plate Assembly:** A ruggedized, self-aligning mechanical strike plate configured to pair with the magnet face to establish a high-strength physical locking connection.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates mechanical structural security and electronic sensor logic into a single self-contained housing, significantly minimizing installation hardware footprints on exit boundaries.
- **Seamless Relay Integration:** Features an integral built-in relay that transmits lock states to auxiliary monitoring platforms without requiring extensive supplementary system wiring or layout modules.
- **Auto-Sensing Power Connectivity:** Features intelligent circuitry that automatically senses and adapts to local low-voltage power supply inputs, reducing component requirements during system deployment.
- **Code-Compliant Life Safety:** Unifies physical patient elopement prevention with national fire and life safety mandates by unlocking instantly upon master fire alarm activation or local power interruption.
- **Validated Platform Interoperability:** Engineered for native structural compatibility with Accutech senior care protection hardware networks, ensuring a unified and dependable approach to patient safety.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	3101 DE Lock (Relay Built In)
Part Number / SKU	ACT-M2400
Component Technology Type	Microprocessor-Controlled Delayed Egress Electromagnetic Lock
Physical Holding Force	1,500 lbs.

Input Operational Voltage	Auto-Sensing 12 to 24 VDC / VAC
Current Consumption	460 mA @ 12V / 260 mA @ 24VDC
Egress Delay Window Time	15 or 30 Seconds (Field Selectable via Dip Switch)
Internal Relay Interface	Integral Built-In System Interconnect Relay
Chassis Dimensions	11" L x 2-3/4" H x 3" D
Chassis Mechanical Finish	Satin Aluminum / Clear Anodized Coating
Primary Target Environments	Assisted Living Exits, Memory Care Centers, and Hospital Stairwells

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC regulations regarding electronic device shielding. This guarantees that internal microprocessors, relay switching paths, and internal high-speed data modules do not introduce or sustain harmful electromagnetic interference across nearby diagnostic clinical devices or patient networks.
- **UL Listing:** Developed and engineered using components compliant with standard cULus Listings for Auxiliary Locks (GWXT) and UL Safety Classifications for Special Locking Arrangements (FWAX).
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the internal circuit layouts, internal terminal relays, and metallic housing finishes strictly restrict the use of lead, mercury, polybrominated biphenyls, and other hazardous materials.