# ACCUTECH 700013

**Fire Panel Interface (FPI) | Life Safety & Emergency Egress Integration Module**


## PRODUCT OVERVIEW

The Accutech 700013 Fire Panel Interface (FPI) serves as a critical 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 a facility's master fire alarm system. By aggregating and processing automated security credentials and incoming fire alarm emergency signals, it eliminates the operational complexity of balancing resident safety with fire code mandates. This centralized topology ensures that large-scale senior care, nursing home, memory care, and hospital facilities maintain instantaneous, real-time emergency egress capabilities.

Deployed directly between peripheral zone controllers, transmitter wands, door controllers, and central administration frameworks, the 700013 module channels emergency override data traffic. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as dropping power to fail-safe magnetic locks—are instantly synchronized during an alarm event. This active tracking processing ensures absolute protection across expansive hospital wings, long care facility corridors, and high-risk resident zones by establishing an uncompressed, bidirectional safety pipeline for immediate, safe building evacuation.

## ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech 700013 Fire Panel Interface (FPI) to act as the primary data and power interface bridging the peripheral exit network and the facility's master fire alarm system. The hardware must support immediate signal processing to disengage magnetic locks and/or elevator deactivation circuitry upon receiving a fire panel alarm trigger.
- **Healthcare Environment Protection:** The data translation 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, memory care units, and neonatal suites.
- **Access and Control:** The device's physical data interface shall feature automated release override paths to allow authorized clinical staff, security personnel, and system administrators to trust that code-compliant egress occurs immediately during an emergency, bypassing localized wandering management restrictions.

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- **Enclosure and Durability:** The interface electronic component assembly shall be protected inside a compact, low-profile housing optimized for inline placement or clean mounting adjacent to central fire alarm control panels or **designated exit doors.**
- **System Interoperability:** The interface architecture must feature validated native compatibility for direct connection with Accutech LC1400 and ResidentGuard controller systems, ensuring non-latent signaling across the facility's dedicated security network.

## SYSTEM COMPONENTS

The 700013 Fire Panel Interface incorporates several fundamental integrated sub-modules and physical connection layouts:

- **High-Speed Signal Relay Chipset:** The primary internal multi-layer circuit board dedicated to handling input signals from the fire alarm panel and immediately tripping the lock power circuits.
- **Low-Resistance Mechanical Screw Terminal Block:** A ruggedized, compression terminal interface configured to accept hardwired non-shielded communication and power loops from the local zone controllers.
- **Dedicated Fire Panel Input Interface Ports:** High-durability dry-contact physical connection layouts designed for direct, secure integration with central facility fire alarm control outputs.
- **Transient Voltage Protection Array:** Internal safety circuitry engineered to isolate delicate computing and wander monitoring components from electrical line surges and ground loops.
- **Compact Facility Mount Enclosure Matrix:** A lightweight, commercial-grade protective shell providing physical protection for interior circuits while being optimized for installation near high-density electronic panels.

## FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates multiple peripheral controller channels into a single emergency interface, greatly simplifying hardware footprints and ensuring immediate building-wide compliance during a fire event.
- **Seamless Protocol Conversion:** Automatically translates complex industrial fire alarm differential relays into instantaneous structural power disconnects without data packet loss or communication delays.
- **Low Current Consumption:** Draws minimal operational current directly from the host system controller, maximizing efficiency and minimizing load demands on facility backup battery systems.
- **Diagnostic Status Indicators:** Features integrated board layouts to provide clear feedback on data transmission and electrical loop connectivity, streamlining troubleshooting tasks for facility maintenance teams.
- **Validated Platform Interoperability:** Engineered for native plug-and-play compatibility with Accutech security networks, ensuring a unified approach to facility patient protection and life safety codes.

## PRODUCT SPECIFICATION

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| **Manufacturer** | Accutech Healthcare Security Solutions |
| **Product Model Name** | Fire Panel Interface (FPI) |
| **Part Number / SKU** | 700013 |
| **Component Technology Type** | Fail-Safe Fire Alarm Release & Perimeter Lock Disengagement Interface |
| **Device Interface Port** | Non-Shielded Screw Terminal Wire Blocks |

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| **Maximum Current Consumption** | 120 mA maximum |
| **Required Cabling Infrastructure** | Minimum 22-gauge, 2-conductor non-shielded cable to each module |
| **Wander System Compatibility** | Accutech ResidentGuard, LC1400, and LS2400 Environments |
| **Chassis Construction** | Low-Profile, Commercial-Grade Structural Housing Matrix |
| **Primary Target Environments** | Memory Care Units, Assisted Living Facilities, Nursing Homes, and Neonatal Units |

## COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC Part 15 Class B regulations regarding digital device shielding. This guarantees that internal serial processing paths 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 information technology equipment, data communication accessories, 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.