

SIMPLEX S40079102

SIMPLEX 4007-9102 4007ES Hybrid Fire Detection and Control Panel User Manual

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the SIMPLEX 4007ES Hybrid Fire Detection and Control Panel, model S40079102. This panel is designed to monitor fire detection devices and initiate appropriate alarm and control functions within a building's fire safety system. Adherence to these instructions is crucial for ensuring the system's reliability and compliance with safety standards.

SAFETY INFORMATION

Important Safety Instructions:

- Installation and servicing must be performed by qualified and authorized personnel only.
- Disconnect all power sources before servicing the panel to prevent electrical shock.
- Ensure all wiring complies with local and national electrical codes and regulations.
- Do not operate the panel with damaged components or wiring.
- Regular testing and maintenance are essential for the system's proper function.
- Refer to all relevant local fire codes and standards during installation and operation.

SETUP AND INSTALLATION

The SIMPLEX 4007ES Hybrid Fire Detection and Control Panel requires professional installation to ensure correct operation and compliance with safety standards. This section outlines general steps; detailed wiring diagrams and specific installation procedures are provided in the comprehensive installation manual supplied with the product.

1. **Mounting:** Securely mount the control panel in a clean, dry, and accessible location, away from direct sunlight, extreme temperatures, and excessive vibration. Ensure adequate ventilation.
2. **Power Connection:** Connect the panel to a dedicated, unswitched AC power circuit. Ensure proper grounding. Install backup batteries as per the detailed instructions to maintain operation during power outages.
3. **Device Wiring:** Connect all fire detection devices (smoke detectors, heat detectors, manual pull stations), notification appliances (horns, strobes), and auxiliary control devices to the appropriate terminals on the panel.

Verify all wiring for continuity and correct polarity.

4. **Network Connections:** If part of a larger network, establish communication links as specified in the system design.
5. **Initial Power-Up:** After all connections are verified, apply power to the panel. Observe the system for initial self-tests and status indicators.
6. **System Programming:** Configure the panel's settings, zones, device addresses, and response protocols using the panel's interface or dedicated programming software. This step is critical for the system's functionality.
7. **System Testing:** Conduct thorough testing of all connected devices and system functions to ensure proper operation and alarm activation.



This image displays the front of the SIMPLEX 4007ES Hybrid Fire Detection and Control Panel, featuring a central display screen and control interface, enclosed in a light gray metal casing.

OPERATING INSTRUCTIONS

The 4007ES panel is designed for intuitive operation. Key functions are typically accessed via the front panel display and control buttons.

- **Normal Operation:** In a normal state, the panel's display will indicate "System Normal" or similar, with no active alarms or troubles. The power indicator LED should be steadily lit.
- **Alarm Condition:** Upon detection of a fire condition, the panel will activate audible and visual alarms, illuminate the "Alarm" LED, and display detailed information about the alarm location on the screen. Notification appliances will activate.
- **Acknowledging an Alarm:** Press the "Acknowledge" button (typically labeled) to silence the panel's internal buzzer and acknowledge the alarm. Notification appliances will continue to operate until the system is reset.
- **System Reset:** After the cause of an alarm has been investigated and resolved, press the "System Reset" button. The panel will attempt to clear the alarm condition and return to a normal state. If the condition persists, the alarm will reactivate.
- **Trouble Condition:** A "Trouble" condition indicates a non-fire fault within the system (e.g., open circuit, ground fault, low battery). The "Trouble" LED will illuminate, and the display will show details. Acknowledge and resolve trouble conditions promptly.
- **Silence Notification Appliances:** In some cases, after acknowledging an alarm, notification appliances can be silenced by pressing a dedicated "Silence" button. This should only be done after ensuring the safety of occupants and under the direction of emergency personnel.

MAINTENANCE

Regular maintenance is crucial for the reliable operation of your SIMPLEX 4007ES Fire Detection and Control Panel. All maintenance should be performed by qualified service technicians.

- **Routine Inspections:** Visually inspect the panel and connected devices regularly for any signs of damage, dirt, or obstructions.
- **System Testing:** Conduct periodic functional tests of the entire fire alarm system as required by local codes and manufacturer recommendations (e.g., weekly, monthly, annually). This includes testing detectors, pull stations, notification appliances, and battery backup.
- **Battery Replacement:** Backup batteries have a limited lifespan and must be replaced periodically, typically every 3-5 years, or as indicated by the panel's trouble signals. Use only manufacturer-approved replacement batteries.
- **Cleaning:** Keep the panel's exterior clean and free of dust. Do not use abrasive cleaners or solvents.
- **Software Updates:** Ensure the panel's firmware is kept up-to-date by authorized service personnel to benefit from performance enhancements and security updates.

TROUBLESHOOTING

This section provides guidance for common issues. For complex problems or persistent faults, contact qualified service personnel.

Problem	Possible Cause	Solution
Panel displays "Trouble"	Open circuit, ground fault, low battery, device fault.	Check the panel display for specific trouble codes. Inspect wiring and devices. Test battery voltage. Contact service personnel if unresolved.
Alarm sounds unexpectedly	Actual fire condition, false alarm (e.g., smoke detector activated by steam/dust), faulty detector.	Investigate the cause immediately. If it's a false alarm, acknowledge and reset. If persistent, contact service personnel.

Problem	Possible Cause	Solution
Panel loses power	AC power failure, blown fuse, faulty power supply.	Check building's circuit breaker. Verify AC power connection. If backup batteries are installed, the panel should operate on battery power. Contact service personnel.
Notification appliances do not activate	Wiring fault, faulty appliance, panel programming error.	Verify wiring to notification appliances. Check panel programming. Contact service personnel for diagnosis.

SPECIFICATIONS

- **Model:** SIMPLEX 4007ES Hybrid Fire Detection and Control Panel
- **Part Number:** S40079102
- **Brand:** SIMPLEX
- **Type:** Fire Detection and Control Panel
- **Power Source:** AC (with Battery Powered backup)
- **Alarm Type:** Audible
- **UPC:** 767571882878
- **Style:** Safety

WARRANTY INFORMATION






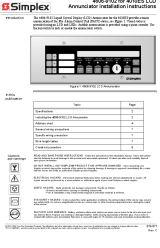
Specific warranty terms and conditions for the SIMPLEX 4007ES Hybrid Fire Detection and Control Panel are typically provided at the time of purchase or can be obtained directly from SIMPLEX or an authorized dealer. Please refer to the documentation included with your product or contact your supplier for detailed warranty coverage, duration, and claim procedures.

SUPPORT AND CONTACT

For technical assistance, service, or further information regarding your SIMPLEX 4007ES Hybrid Fire Detection and Control Panel, please contact your authorized SIMPLEX dealer or the manufacturer directly. Ensure you have your model number (S40079102) and any relevant system details available when seeking support.

For general inquiries, you may visit the official SIMPLEX website or consult the contact information provided in your purchase documentation.

Related Documents - S40079102

	<p>Simplex 4007ES Color Touchscreen LCD Annunciator Installation Manual</p> <p>Installation guide for the Simplex 4007ES Color Touchscreen LCD Annunciator, detailing wiring, mounting, and address setting procedures for fire alarm systems.</p>
	<p>Simplex 4007ES Fire Detection and Control Unit Datasheet</p> <p>Detailed datasheet for the Simplex 4007ES Fire Detection and Control Unit, covering its MX Digital Addressable Initiation and Addressable Notification capabilities, features, specifications, and installation details.</p>
	<p>Simplex 4005 Series LifeAlarm Fire Alarm Control Panels - Technical Manual</p> <p>Explore the features, specifications, and applications of the Simplex 4005 Series LifeAlarm Fire Alarm Control Panels. This document provides detailed information for system integrators and facility managers.</p>
	<p>Simplex 4004 Fire Alarm System Installation and Operation Manual</p> <p>This manual provides comprehensive installation and operation instructions for the Simplex 4004 Fire Alarm Control Panel (FACP). It covers system overview, requirements, installation procedures, operating instructions, glossary of terms, and battery selection. The 4004 FACP is a general alarm, battery-backed, electrically supervised system designed for fire detection and notification.</p>
	<p>Catálogo Simplex 2021: Soluções Abrangentes em Alarme e Detecção de Incêndio</p> <p>Explore o catálogo Simplex 2021 da Johnson Controls, apresentando uma linha completa de unidades de controle de alarme de incêndio, dispositivos de iniciação, aparelhos de notificação e acessórios. Descubra tecnologias inovadoras e confiabilidade para a segurança contra incêndios.</p>
	<p>Simplex 4606-9102 LCD Annunciator Installation Instructions</p> <p>Comprehensive installation guide for the Simplex 4606-9102 LCD Annunciator, detailing specifications, wiring, mounting, and configuration for the 4010ES Fire Alarm Control Unit.</p>