SIMPLEX 4010 9403

Simplex 4010-9403 4010ES Addressable Fire Control Unit User Manual

Model: 4010 9403 | Brand: SIMPLEX

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Simplex 4010-9403 4010ES Addressable Fire Control Unit. This unit is designed to provide reliable fire detection and alarm capabilities for various applications. Please read this manual thoroughly before attempting any installation or operation.

2. SAFETY INFORMATION

Always adhere to local and national electrical codes and fire safety regulations during installation and operation. Only qualified personnel should install, service, or maintain this equipment. Disconnect all power sources before servicing. Failure to follow these instructions may result in injury, death, or property damage.

- Ensure the unit is properly grounded.
- Do not expose the unit to moisture or extreme temperatures.
- Use only approved replacement parts.
- Regularly inspect the unit for any signs of damage or malfunction.

3. PRODUCT OVERVIEW

The Simplex 4010ES Addressable Fire Control Unit (FCU) is a robust system designed for comprehensive fire detection and notification. It features an addressable loop for connecting various fire alarm devices such as smoke detectors, heat detectors, and manual pull stations. The unit is housed in a durable red enclosure with a clear LED display for status indication.

Figure 3.1: Front view of the Simplex 4010ES Addressable Fire Control Unit. The unit is red with a dark grey control panel featuring a green LED display and various buttons and indicators.

The unit operates on 120V AC power and includes a battery backup system to ensure continuous operation during power outages. The front panel provides access to system controls, status indicators, and a key lock for secure access.

4. SETUP AND INSTALLATION

4.1 Unpacking and Inspection

Carefully unpack the fire control unit and inspect it for any signs of shipping damage. Verify that all components listed in the packing slip are present. The unit's part number is 0743904, and the PID is 4010-9403, as indicated on the packaging.

Figure 4.1: Product identification label on the shipping box, displaying the PID (4010-9403), Part No. (0743904), and serial number for the Simplex 4010ES FACP.

4010ES Fire Alarm System

Figure 4.2: Included accessories such as the system key and cable ties, essential for installation and secure operation.

4.2 Mounting the Unit

Select a clean, dry, and secure location for mounting the unit, away from direct sunlight and heat sources. Ensure adequate space for ventilation and access for servicing. Mount the unit securely to a wall using appropriate fasteners, ensuring it is level and stable.

4.3 Electrical Connections

The unit requires a 120V AC power supply. All wiring must comply with national and local electrical codes. Connect

the main power supply to the designated terminals inside the unit. Ensure proper grounding. Install backup batteries as per the wiring diagram provided with the unit.

4.4 Device Wiring

Connect addressable fire alarm devices (detectors, modules, pull stations) to the unit's addressable loop terminals. Follow the specific wiring diagrams for each device type to ensure correct addressing and functionality. Verify all connections are secure before applying power.

5. OPERATING INSTRUCTIONS

5.1 Powering On

Once all connections are complete and verified, apply main AC power to the unit. The unit will perform a self-diagnostic test. Observe the LED indicators for system status. The green 'POWER' LED should illuminate steadily.

5.2 Understanding Indicators

- **POWER (Green LED):** Indicates AC power is present.
- **ALARM (Red LED):** Illuminates when a fire alarm condition is detected.
- **TROUBLE (Yellow LED):** Indicates a system fault or malfunction.
- **SUPERVISORY (Yellow LED):** Indicates a supervisory condition (e.g., sprinkler flow).
- **SILENCE (Button):** Press to silence audible alarms.
- **RESET (Button):** Press to reset the system after an alarm or trouble condition.

5.3 Responding to Alarms

1. Upon an alarm, the red ALARM LED will illuminate, and audible signals will activate.
2. Immediately investigate the cause of the alarm.
3. To silence the audible alarm, press the **SILENCE** button.
4. Once the cause of the alarm is resolved, press the **RESET** button to clear the alarm condition and restore the system to normal operation.
5. If the alarm persists or cannot be reset, refer to the Troubleshooting section or contact qualified service personnel.

6. MAINTENANCE

Regular maintenance is crucial for the reliable operation of your fire control unit. Perform the following checks periodically:

- **Monthly:**

    - Visually inspect the unit for any physical damage or loose connections.
    - Check all LED indicators for proper illumination.
    - Test the battery backup system by temporarily disconnecting AC power and verifying the unit remains operational.

- **Annually:**

    - Perform a full system test, activating each detector and pull station to ensure proper response.
    - Clean the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners.

- Have a qualified technician inspect and test the unit, including battery replacement if necessary.

7. TROUBLESHOOTING

This section provides solutions to common issues you may encounter with your Simplex 4010ES unit. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Unit has no power (no LEDs).	No AC power; tripped circuit breaker; dead battery.	Check AC power supply; reset circuit breaker; check/replace backup battery.
TROUBLE LED is illuminated.	Wiring fault; device malfunction; low battery.	Check wiring connections; inspect devices; test/replace battery. Consult system logs for specific trouble codes.
False alarms.	Dust/debris in detectors; environmental factors; faulty device.	Clean detectors; identify and mitigate environmental factors (e.g., steam); replace faulty device.
System will not reset.	Alarm condition still present; system fault.	Ensure all alarm conditions are cleared; check for trouble signals. If issue persists, contact service.

8. SPECIFICATIONS

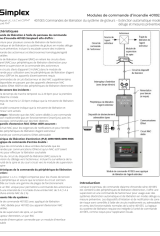| Feature	Detail
Brand	SIMPLEX
Model Number	4010 9403
Part Number	S40109403
UPC	767571882953
Power Source	120V AC, Battery Powered (Backup)
Color	Red
Alarm Type	Visual
Manufacturer	SIMPLEX
Item Package Quantity	1

9. WARRANTY AND SUPPORT
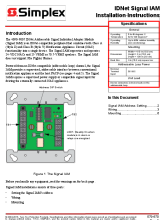
For specific warranty information regarding your Simplex 4010-9403 4010ES Addressable Fire Control Unit, please refer to the documentation provided at the time of purchase or contact your authorized Simplex distributor. Simplex is committed to providing excellent customer service and support for its products.
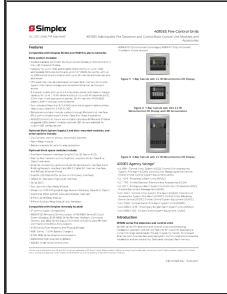
If you require technical assistance, service, or have questions regarding your unit, please contact Simplex customer

support or an authorized service provider. Contact information can typically be found on the manufacturer's official website or through your local distributor.

Related Documents - 4010 9403

	[Simplex IDNet Signal IAM Installation Instructions](#) Detailed installation instructions for the Simplex 4090-9007 IDNet Addressable Signal Individual Adapter Module (Signal IAM), covering address setting, wiring configurations for Class A and Class B Notification Appliance Circuits (NACs), and mounting procedures. This guide provides essential information for integrating the Signal IAM with fire alarm control panels and notification appliances.
	[Simplex Addressable Manual Stations: IDNet/MAPNET II Peripherals](#) Explore Simplex addressable manual fire alarm stations, detailing their features, single/double action types, NO GRIP options, and compatibility with IDNet/MAPNET II systems. Includes mounting and specification information.
	[Simplex 4010ES: Systèmes de commande d'extinction automatique pour gicleurs](#) Guide technique Simplex 4010ES détaillant les modules de commande pour les systèmes d'extinction automatique par gicleurs, couvrant les modes déluge et préventif, avec spécifications, homologations et schémas de câblage.
	[Simplex 4007ES Fire Detection and Control Unit Datasheet](#) 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.
	[Simplex 4090-9007 IDNet Signal IAM: Addressable Module for Fire Alarm Systems](#) Detailed technical specifications and features for the Simplex 4090-9007 IDNet Signal Individual Addressable Module (IAM), designed for enhanced selective signaling and audio control in Simplex 4100ES, 4010ES, 4100U, and 4008 Series fire alarm control panels. Includes wiring, operation, and mounting information.