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Simplex 4006-9101

Simplex 4006-9101 Standard Fire Alarm Control Panel User Manual

Model: 4006-9101 (Item Model Number: 400 9101)

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Simplex 4006-9101 Standard Fire Alarm Control Panel. Designed for areas requiring five to ten initiating zones, this panel offers flexible initiating circuit monitoring, extensive programmable control capabilities, and an LCD for annunciated circuit-specific 20-character custom labels. Proper understanding and adherence to these instructions are crucial for the safe and effective functioning of the fire alarm system.

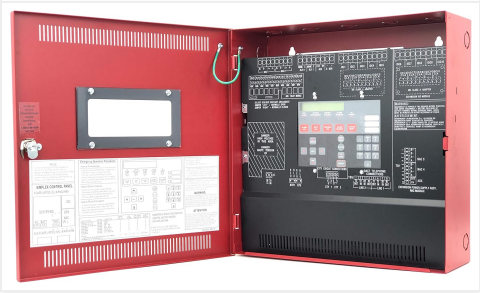
Product Overview

The Simplex 4006-9101 is a robust fire alarm control panel housed in a distinctive red enclosure. It features a central display and an array of control buttons for system management. This panel is designed for professional hard-wired installations and includes essential components for a comprehensive fire safety system.

Key Features:

- 5 Class B Initiating Device Circuits (IDCs)
- 2 Class B/Class A Notification Appliance Circuits (NACs)
- 3 Ampere power supply with integrated battery charger

- On-board Digital Alarm Communicator Transmitter (DACT)
- Operates on 120/240 VAC, 50/60 Hz (auto-selecting)
- LCD annunciated circuit-specific 20 character custom labels



The interior of the control panel is meticulously organized, featuring the main circuit board, clearly labeled wiring terminals for various circuits (IDCs, NACs, power), and internal documentation including emergency operation procedures and wiring diagrams. This design facilitates professional installation and maintenance.

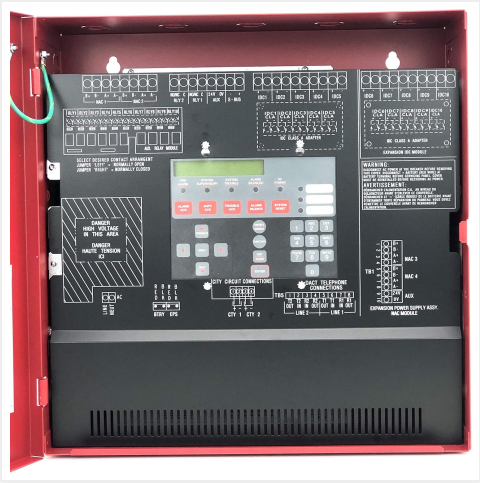
Setup and Installation

The Simplex 4006-9101 Fire Alarm Control Panel requires professional hard-wired installation. It is crucial that installation is performed by qualified personnel in accordance with all local and national electrical and fire safety codes.

Included Components

- Simplex 4006-9101 Control Panel Unit
- Key for panel access
- Wiring harness (as applicable)
- Documentation (User Manual, Installation Guide, Wiring Diagrams)
- Compatible devices such as Smoke Detector, Pull Station, Horn/Strobe (may be sold separately or included as part of a system package)

Wiring and Connections



Refer to the detailed wiring diagrams provided within the panel's internal documentation and the separate installation guide for precise connection instructions. Ensure all power connections (120/240 VAC) are made correctly and safely. Connect initiating devices (smoke detectors, pull stations) to the IDC terminals and notification appliances (horns, strobes) to the NAC terminals.

The provided wiring harness facilitates specific internal connections. Ensure these are securely attached according to the installation diagrams.

Power Supply and Battery

The panel includes a 3 Ampere power supply with a battery charger. Connect the primary AC power source (120/240 VAC, 50/60 Hz) to the designated terminals. Install backup batteries (not typically included with the panel, refer to specifications for type and capacity) to ensure continuous operation during power outages.

Operating the Control Panel

The Simplex 4006-9101 features an intuitive control interface with an LCD display and tactile buttons. Access to certain functions may require the use of the provided key.

The inside of the panel door provides a quick reference guide for emergency operation procedures and a layout of the control buttons. This includes instructions on how to acknowledge alarms, silence signals, and reset the system.

Basic Operations

- **Acknowledging Alarms:** When an alarm or trouble condition occurs, the panel will annunciate it visually and audibly. Press the "ACKNOWLEDGE" button to silence the panel's internal buzzer and acknowledge the event.
- **Silencing Signals:** After an alarm is acknowledged, the notification appliances (horns, strobes) will continue to activate. Press the "SIGNAL SILENCE" button to silence these devices.
- **Resetting the System:** Once the alarm condition has been resolved, press the "SYSTEM RESET" button to clear the alarm and restore the system to its normal operating state.
- **LCD Display:** The LCD provides detailed information about system status, events, and circuit-specific labels.

Navigate through messages using the arrow keys.

The provided key is used to access the control panel's internal components and may be required to enable certain operational modes or to reset the system after specific events. Keep this key in a secure, accessible location.

Maintenance

Regular maintenance is essential to ensure the reliable operation of your Simplex 4006-9101 Fire Alarm Control Panel. All maintenance procedures should be performed by qualified fire alarm technicians.

Routine Checks

- **Daily/Weekly:** Verify the "NORMAL" indicator light is illuminated. Check the LCD for any trouble messages.
- **Monthly:** Test all initiating devices (smoke detectors, pull stations) and notification appliances (horns, strobes) in accordance with local codes and manufacturer guidelines.
- **Annually:** Conduct a full system inspection and test by a certified fire alarm technician. This includes battery load tests, verification of all circuits, and calibration checks.

Cleaning

Keep the exterior of the control panel clean using a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure ventilation openings are free from dust and debris.

Troubleshooting

This section provides guidance for common issues. For complex problems or persistent trouble conditions, contact a qualified fire alarm technician.

Problem	Possible Cause	Solution
Panel displays "TROUBLE"	Open circuit, ground fault, or device malfunction.	Check the LCD for specific trouble messages. Inspect wiring for damage. Contact technician for diagnosis.
Alarm sounds continuously after reset	Alarm condition still present or device not reset.	Ensure the cause of the alarm (e.g., smoke) is cleared. Manually reset any activated devices (e.g., pull station).
No power to panel	AC power loss or battery issue.	Check AC power supply. Verify battery connections and charge. Replace batteries if necessary.
Keypad unresponsive	Temporary software glitch or hardware issue.	Try a system reset (if possible). If problem persists, contact technician.

Specifications

Attribute	Detail
Manufacturer	Simplex
Part Number	4006-9101
Item Model Number	400 9101
Color	Red
Power Source	Battery Powered (with AC input)
Installation Method	Professional Hard-wired
Item Package Quantity	1
Included Components	Smoke Detector, Pull Station, Horn/Strobe (as compatible devices)
Connectivity Technology	Wired
Alert Type	Motion Only (Note: This might be a generic category, actual alerts are fire/trouble)
Control Method	Touch (via keypad)
Unit Count	1.0 Count
Initiating Device Circuits (IDCs)	5 Class B
Notification Appliance Circuits (NACs)	2 Class B/Class A
Power Supply	3 A with battery charger
Voltage	120/240 VAC, 50/60 Hz (autoselect)
Digital Alarm Communicator Transmitter (DACT)	On-board

Warranty Information

The Simplex 4006-9101 Standard Fire Alarm Control Panel comes with a **12-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims or detailed terms and conditions, please refer to the official Simplex warranty documentation or contact Simplex customer support.

Support and Contact

For technical assistance, service, or further information regarding your Simplex 4006-9101 Fire Alarm Control Panel, please contact Simplex customer support or a certified fire alarm system professional.

Manufacturer: Simplex

Website: www.simplex-fire.com

Professional Installation/Service: Always consult with a qualified and certified fire alarm system installer or service provider for any installation, repair, or complex troubleshooting.

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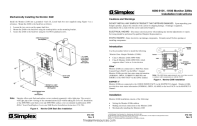
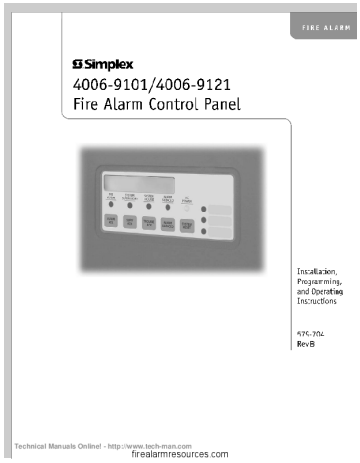
Related Documents - 4006-9101

	Simplex 4005 Series LifeAlarm Fire Alarm Control Panels - Technical Manual 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.
	Simplex 4090-9101, 4090-9106 Monitor ZAM Installation Instructions Installation instructions for Simplex 4090-9101 and 4090-9106 Monitor Zone Adapter Modules (ZAMs). Covers mechanical installation, address setting via DIP switches, and electrical connections for IDNet and MAPNET II systems.
	Kidde Cavius Fire Alarm Controller 9101 User Guide User guide for the Kidde Cavius Fire Alarm Controller, model 9101. Provides information on features, installation, operation, testing, and troubleshooting for interconnected wireless smoke and heat alarms.
	CAR PLAYER Operation Manual: Installation, Features, and Troubleshooting Comprehensive operation manual for the CAR PLAYER, detailing specifications, installation guides, rear interface connections, smartphone integration (iPhone Mirrorlink, Apple CarPlay, Android Mirrorlink, Android Auto), and troubleshooting common issues. Includes wiring diagrams and FCC compliance information.
	Simplex 4004 Fire Alarm System Installation and Operation Manual 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.
	Simplex 4010ES Fire Alarm Control Panel Operator's Manual This manual provides comprehensive instructions for operating the Simplex 4010ES Fire Alarm Control Panel (FACP). It covers basic concepts, alarm conditions, trouble conditions, supervisory conditions, advanced functions, and system test procedures. Learn how to acknowledge alarms, silence alarms, reset the system, and manage various system events.



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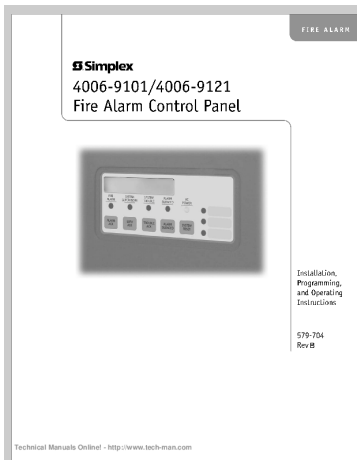

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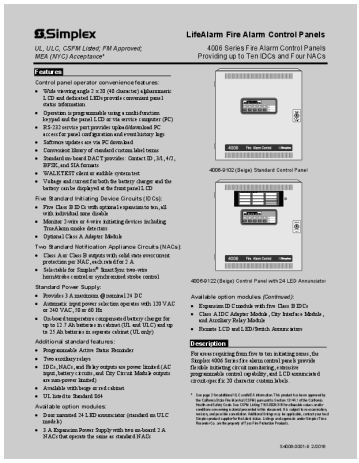

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UL, ULC, CSFM Listed; FM Approved; MEA NYC Acceptance* LifeAlarm Fire Alarm Control Panels 4006 S ... local energy . Reporting includes Alarm, Supervisory, and Trouble. Control Panel Model 4006-9102 **4006-9101** 4006-9122 4006-9121 Color Beige Red Beige Red Description Standard fire alarm control pa...

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Simplexgrinnell

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Ürün	Açıklama
15200	DISC, (IDS/228 PORT CABINET W/ CBL)
4006-9102	CONVENTIONAL SMALL FA BEIGE
2080-9020	DISC, (8 ZONE DUAL LINE DACT S207)
15740-0	DISC, (12 PORT SMT STATION CARD)
1406-9111	SIMPLEX 500 120V/60HZ
1603-9115	SIMPLEX 125-0
0566-736	PC BOARD TRANSCEIVER ASSEMBLY MAPNET II ALARM ZONE
562-464	DISC, USE SIM-8562-464 (28 VOLT POWER SUPPLY 120VAC SOURCE)
4009-9201	NAC EXTENDER 120VAC, IDNET
1403-9110	CENTENNIAL 120V
4006-9101	CONVENTIONAL FIRE ALARM PANEL

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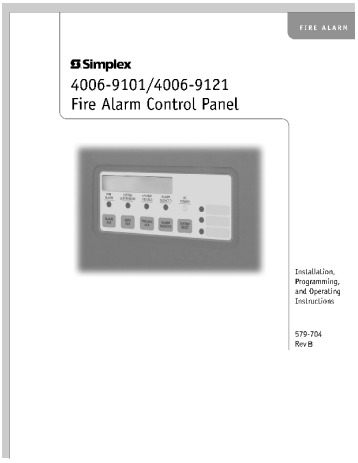

FIRE ALARM

Simplex
4006-9101/4006-9121
Fire Alarm Control Panel

Installation, Programming, and Operating Instructions

579-704
Rev B

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Simplex — Painéis de Controle de Alarme de Incêndio LifeAlarm

*Registrado em CSFM, UL, ULC, CSFM; aprovado por FM; Aceitação MEA (NYC)**

Painéis de Controle de Alarme de Incêndio Série 4006
Oferece até dez IDCs e quatro NACs

Características

Recursos práticos para o operador do painel de controle:
- LCD alfanumérico 2 x 20 (40 caracteres) com ampla ângulo de visão e LEDs dedicados oferecem informações claras sobre o status do painel
- Operação programável usando uma tecla de várias funções e quatro LCD exclusivos (somente de serviço (FC)
- A porta de serviço RS-232 permite que o cliente se conecte ao computador para vários recursos, incluindo configuração do painel e recuperação histórica de eventos
- Atualização do software via download pelo computador
- Biblioteca vocal de tamanho padrão para legendas personalizadas
- DACT integrado padrão: ID de Contato, 3/1, 4/2, BFSK e formatos 3/2
- Teste de sistema **discreto ou remoto TALKTEST
- A tensão e a corrente para a carregador de bateria e a bateria são monitoradas para a integridade adequada

Circuitos de dispositivos de iniciação (IDCs):
- Cinco IDCs Classe B (recepção de e expansão para dez, todos com detecção de zona individual)
- Mantém dispositivos de iniciação de 2 ou 4 fios, incluindo detectores de fumaça Threshlarm
- Módulo adaptador Classe A opcional

Dois circuitos de dispositivos auxiliares padrão (NACs):
- Todos Classe A ou Classe B (supervisão de sirene ou strobo) cada um com uma capacidade de 3 A
- Seletor(es) para controle de luz piscante sincronizado ou contínuo de luz piscante/temporo de dois fios Simplex® (padrão)

Fonte de alimentação do painel:
- Para a 3 A máximo a 24 Vcc nominal
- Seleção automática de fonte de entrada para 120 VA ou 240 Vca, 50 ou 60 Hz
- Carregador de bateria integrado com compensação de temperatura para bateria de até 22 Ah (ou sistema UL) e bateria de até 25 Ah (ou sistema separado (apenas UL)

Recursos adicionais padrão:
- Mensagens de status (não programável)
- Dois relés auxiliares
- IDCs, NACs e saídas de relé (ou limitação de potência (controle de CA, circuitos de bateria e saídas de módulo de carretel de fonte (ou não limitação de potência))
- Disponível em sistema logo ou versão flat
- Registro de UL em Standard 864

Módulos opcionais disponíveis:
- Acrescidos 20 LED montados em painéis padrão ou modelos ULC)
- Fonte de alimentação auxiliar de 3 A com dois NACs integrados de 3 A que operam como NACs padrão

Painel de controle padrão 4006-9102 (beige)

Painel de controle padrão 4006-9102 (beige) com acrescidos 24 LED

Módulos opcionais disponíveis (continuação):
- Módulo de IDC de expansão com 5 IDCs Classe B
- Módulo adaptador de IDC Classe A, substitui de interfaces de rede sobressalentes
- Acrescidos remotos LCD e LED-Interruptor

Descrição

Para atender aos requisitos de cinco e dez zonas de instalação, os painéis de controle de alarme de incêndio Simplex 4006 Series oferecem um monitoramento de circuito de iniciação versátil, amplo invólucro de controle programável e legendas personalizadas de 20 caracteres específicos do circuito usando todo o LCD.

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Painis de Controle de Alarme de Incndio LifeAlarm Registrado em CSFM, UL, ULC, CSFM; aprovado por F ... i Alarme Alarme , Superviso Supervisory e Falha Trouble . Painel de controle Modelo 4006-9102 **4006-9101** 4006-9122 4006-9121 Cor Bege Vermelho Bege Vermelho Descrio Painel de controle de alarme...

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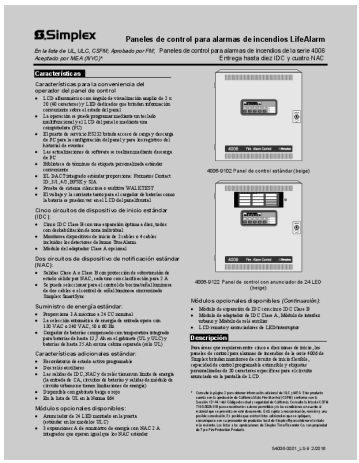

Simplex

Paneles de control para alarmas de incendios LifeAlarm

*En la lista de UL, ULC, CSFM; Aprobado por FM; Aceptado por MEA (NYC)**

Paneles de control para alarmas de incendios de la serie 4006
Entrega hasta diez IDC y cuatro NAC

Características

Características para la conveniencia del operador del panel de control

- LCD alfanumérico con ángulo de visualización amplio de 2 x 32 (40 caracteres) y LED alfanuméricos dedicados brindan información constante sobre el estado del panel
- La operación se puede programar mediante un teclado antivandálico y el LCD del panel o mediante una computadora (PC)
- El puerto de servicio RS232 brinda acceso de carga y descarga de PC para la configuración del panel y para los registros del historial de eventos
- Las actualizaciones de software se incluyen mediante descarga de PC
- Bibliotecas de etiquetas personalizadas ofrecidas comúnmente
- El DACT integrado admite proporcionar Formatos Contact ID, 3/1, 4/2, SIA y SIA
- El teclado TrueAlarm admite cuatro estilos WALKTEST
- El teclado y la estación remota para el cargador de baterías cómoda la batería se puede ver en el LCD del panel frontal

Cinco circuitos de dispositivo de inicio estándar (IDC)

- Clase B IDC Clase B con una expansión óptima a dos, todos los dispositivos compatibles con 4-hilos
- Monitorea dispositivos de inicio de 2-hilos o 4-hilos incluidos los detectores de humo TrueAlarm
- Módulo de adaptador Clase A opcional

Dos circuitos de dispositivo de notificación estándar (NAC)

- Salidas Clase A o Clase B con protección de sobretensión de estado sólido por NAC, cada una con clasificación para 3 A
- Se puede colocar cerca del controlador o en hasta 4 ubicaciones de dos cables a través de módulos de control Simplex SmartSync

Suministro de energía estándar:

- Proporciona 3 A máximo @ 24 CC nominal
- La selección automática de energía de entrada opera con 120 VAC o 240 VAC, 50 o 60 Hz
- Cargador de batería compuesto con temperatura integrada para baterías de hasta 12.7 Ah en el gabinete (7E y 7E-LCD) y baterías de hasta 27 Ah en una cabina separada (sólo 7E)

Características adicionales estándar:

- Reconfigurable de estado activo programable
- Dos relés auxiliares
- Las salidas de IDC, NAC y de relés transmiten límite de energía (la entrada de CA, circuito de batería y salida de estado de circuito cumplen o superan los límites de energía)
- Disponible con gabinete beige o rojo
- En la lista de UL en la Marca 864

Módulos opcionales disponibles:

- Anunciador de 24 LED montado en la puerta (solicitar en los modelos 7E-C)
- 3 expansiones A de monitores de energía con MAC-3 A integrados que ejecutan igual que 3 MAC estándar

4006-9102 Panel de control estándar (beige)

4006-9122 Panel de control con anunciador de 24 LED (beige)

Módulos opcionales disponibles *(Continuación)*:

- Módulo de expansión de IDC con clase IDC Clase B
- Módulo de adaptador de IDC Clase A, Módulo de batería remota y Módulo de reloj exterior
- 1 LED remoto y anunciadores de LED/interruptor

Descripción

Para áreas que requieren entre cinco y diez zonas de inicio, los paneles de control para alarmas de incendios de la serie 4006 de Simplex brindan monitoreo de circuito de inicio flexible, capacidad de control programable extendida y etiquetas personalizables de 30 caracteres específicos para cada circuito asociado con la placa de IDC.

* Consulte la página 2 para obtener información adicional de UL/ULC. Este producto ha sido aprobado por el Office of the State Fire Marshal (OSFM) según la Sección 13144 1 del Código de Salud y Seguridad de California. Consulte la Orden de la OSFM 7300-0038:218 para conocer los códigos permitidos y las condiciones encontradas al instalar este producto en California. Este producto no está aprobado para uso en sistemas de protección contra incendios residenciales en California, a menos que se use en conjunto de productos de la Lista de Productos Residenciales de la OSFM. Consulte la Lista de Productos Residenciales de Simplex. Este producto no ha sido probado ni aprobado por The Fire Protection Research.

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Paneles de control para alarmas de incendios LifeAlarm En la lista de UL, ULC, CSFM; Aprobado por F ... ga local , La informacin incluye Alarma, Supervisor y Problema. Panel de control Modelo 4006-9102 **4006-9101** 4006-9122 4006-9121 Color Beige Rojo Beige Rojo Descripcin Panel de control de la alarma...

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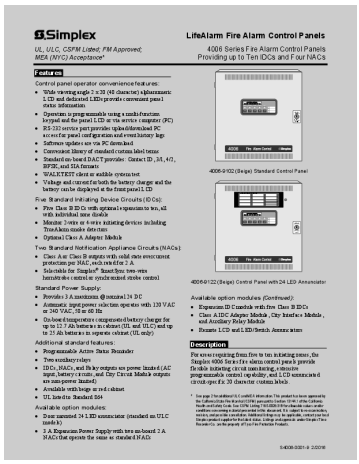

Simplex

LifeAlarm Fire Alarm Control Panels

*UL, ULC, CSFM Listed, FM Approved; MEA (NYC) Acceptance**

4006 Series Fire Alarm Control Panels
Providing up to Ten IDCs and Four NACs

Features

Control panel operator convenience features:

- Wide viewing angle 2 x 32 (40 character) alphanumeric LCD and dedicated LEDs provide convenient panel status information
- Operation is programmable using a multi-function keypad and the panel LCD, or via service computer (PC)
- RS-232 service port provides uploa/download PC access for panel configuration and event history logs
- Software updates are via PC downloa d
- Convenient library of standard custom label menus
- Standard on-board DACT provides: Contact ID , 3/1, 4/2 , SIA, and SIA formats
- WALKTEST client or available system test
- Voltage and current for both the battery charger and the battery can be displayed at the front panel LCD

Five Standard Initiating Device Circuits (ID Cs):

- Five Class B IDCs with optional expansion to ten, all with individual zone disable
- Monitor 2-wire or 4-wire initiating devices including TrueAlarm smoke detectors
- Optional Class A Adapter Module

Two Standard Notification Appliance Circuits (NACs):

- Class A or Class B outputs with solid-state overcurrent protection per NAC, each rated for 3 A
- Selectable for Simplex® SmartSync two-wire horn/strobe control or synchronized strobe control

Standard Power Supply:

- Provides 3 A maximum @ nominal 24 DC
- Automatic input power selection operates with 120 VAC or 240 VAC, 50 or 60 Hz
- On-board temperature compensated battery charger for up to 12.7 Ah batteries in cabinet (2E and 4LC) and up to 27 Ah batteries in separate cabinet (4L only)

Additional standard features:

- Programmable Active Status Reminder
- Two auxiliary relays
- IDCs, NACs, and Relay outputs are power limited (AC input, battery circuits, and City Circuit Module outputs are non-power limited)
- Available with beige or red cabinet
- UL lists for Standard 864

Available option modules:

- Door-mounted 24 LED annunciator (standard on ULC models)
- 3 A Expansion Power Supply with two on-board 2 A NACs that operate the same as standard NACs

4006-9102 (Beige) Standard Control Panel

4006-9122 (Beige) Control Panel with 24 LED Annunciator

Available option modules *(Continued)*:

- Expansion ID Cmodule with five Class B IDCs
- Class A IDC Adapter Module , City Interface Module , and Auxiliary Relay Module
- Remote LCD and LED/Switch Annunciators

Description

For areas requiring from five to ten initiating zones, the Simplex 4006 Series fire alarm control panels provide flexible initiating circuit monitoring, extensive programmable control capability, and LCD annunciated circuit-specific 30 character custom labels.

* See page 2 for additional UL/ULC/FM/MEA details. This product has been approved by the California State Fire Marshal (OSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See OSFM Listing 7300-0038:218 for allowable features and conditions concerning its use in California. Consult the Simplex Residential Products List. Not approved or tested by The Fire Protection Research Foundation of California.

[pdf] Specifications Decleration of Conformity Label

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UL, ULC, CSFM Listed; FM Approved; MEA NYC Acceptance* LifeAlarm Fire Alarm Control Panels 4006 S ... local energy . Reporting includes Alarm, Supervisory, and Trouble. Control Panel Model 4006-9102 **4006-9101** 4006-9122 4006-9121 Color Beige Red Beige Red Description Standard fire alarm control pa...

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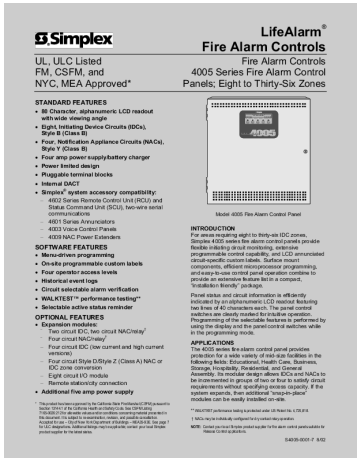

Simplex

LifeAlarm®
Fire Alarm Controls

UL, ULC Listed
FM, CSFM, and
NYC, MEA Approved*

Fire Alarm Controls
4005 Series Fire Alarm Control
Panels; Eight to Thirty-Six Zones

STANDARD FEATURES

- **80 Character, alphanumeric LCD readout with wide viewing angle**
- **Eight, Initiating Device Circuits (IDCs), Style B (Class B)**
- **Four, Notification Appliance Circuits (NACs), Style Y (Class B)**
- **Four amp power supply/battery charger**
- **Power limited design**
- **Pluggable terminal blocks**
- **Internal DACT**
- **Simplex® system accessory compatibility:**
  - 4602 Series Remote Control Unit (RCU) and Status Command Unit (SCU), two-wire serial communications
  - 4601 Series Annunciators
  - 4003 Voice Control Panels
  - 4009 NAC Power Extenders

SOFTWARE FEATURES

- **Menu-driven programming**
- **On-site programmable custom labels**
- **Four operator access levels**
- **Historical event logs**
- **Circuit selectable alarm verification**
- **WALKTEST™ performance testing***
- **Selectable active status reminder**

OPTIONAL FEATURES

- **Expansion modules:**
  - Two circuit IDC, two circuit NAC/relay†
  - Four circuit NAC/relay†
  - Four circuit IDC (low current and high current versions)
  - Four circuit style D/style Z (Class A) NAC or IDC zone conversion
  - Eight circuit I/O module
  - Remote stationcity connection
- **Additional five amp power supply**

Model 4005 Fire Alarm Control Panel

INTRODUCTION

For areas requiring eight to thirty-six IDC zones, Simplex 4005 series fire alarm control panels provide flexible initiating circuit monitoring, extensive programmable control capability, and LCD annunciated circuit-specific custom labels. Surface mount components, efficient microprocessor programming, and easy-to-use control panel operation combine to provide an extensive feature list in a compact, "installation friendly" package.

Panel status and circuit information is efficiently indicated by an alphanumeric LCD readout featuring two lines of 40 characters each. The panel control switches are clearly marked for intuitive operation. Programming and testing are also facilitated by performed by using the display and the panel control switches while in the programming mode.

APPLICATIONS

The Simplex 4005 fire alarm control panel provides protection for a wide variety of mid-size facilities in the following fields: Educational, Health Care, Business, Storage, Hospitality, Residential, and General Assembly. Its modular design allows IDCs and NACs to be incremented in groups of two or four to satisfy circuit requirements without specifying excess capacity. If the system expands, then additional "snap-in-place" modules can be easily installed on-site.

* WALKTEST performance testing is provided when UL Rated No. 1,730,816

† NACs may be individually configured for city connection operation.

NOTE: Contact your local Simplex product supplier for the alarm control panels available for Network 4100U applications.

Simplex 4005 Series LifeAlarm Fire Alarm Control Panels - Technical Manual

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.

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