

Features

Basic system includes:

- Capacity for up to 250 addressable IDNet points, up to 127 VESDA Air Aspiration Systems interface points, up to 2000 points of Annunciation and up to 20 internal and external card addresses
- Color-coded operator interface with membrane keypad includes 2 x 40 Super-twist LCD display, 3 programmable control keys and 6 programmable LEDs
- CPU assembly includes dedicated compact flash memory for on-site system information storage and convenient Ethernet service port access
- 8 A power supply with up to 2 A of Auxiliary power and battery charger capacity for up to 110 Ah batteries (UL) or up to 50 Ah batteries (ULC) (33 Ah max in control panel cabinet)
- 4 on-board Class A or B, 3 A NACs and one programmable auxiliary relay output rated for 2 A @ 32 VDC
- 250 point addressable IDNet 2 dual loop communications that support TrueAlarm analog sensors and IDNet communications monitoring and control devices with an **electrically isolated output channel** allowing use with either shielded or unshielded, twisted or untwisted single pair wiring; **and providing dual short circuit isolating output loops**
- Remote annunciator module support via RUI (Remote Unit Interface) communications port, supports either Class B or Class A operation
- 48 LED panel mount annunciation provides 40 Red and 8 Yellow pluggable LEDs (select models, meets ULC requirements), optional LED kits are available for custom LED configurations

Optional Main System Supply and door mounted modules, and other options include:

- City Connect (with or without disconnect switches)
- Alarm Relay Module
- TrueInsight Remote Gateway
- Battery brackets for seismic area protection (see page 2)

Optional block space modules include:

- Fire Alarm Network Interface Card for Peer-to-Peer fire alarm network communications, supports either Class B or Class X operation
- Ethernet connectivity options include Building Network Interface Module (BNIC), SafeLINC Internet Interface, and BACpac Ethernet Portal
- Dual RS-232 Module (for printer, PC annunciator or third party interface)
- VESDA Air Aspiration High Level Interface
- Serial DACT
- 8 Zone IDC Modules Class A or B
- 4 Point Auxiliary Relay Module
- Physical Bridge Network Modules



4010ES Fire Alarm Control Panels are available standard (left) or with LED Annunciation (right)

Compatible with Simplex® remotely located:

- 4098-9757 QuickConnect 2 and legacy 4098-9710 QuickConnect TrueAlarm smoke sensors
- 4003EC Small Voice Panels
- 4009 IDNet NAC Extenders (4009A)
- 4081 Series, 110 Ah Battery Chargers
- 4100-7400 Series Graphic Annunciators
- 4190 Series PC Annunciator
- 4190 Series Fiber Modems and Physical Bridges
- 4606-9102 Remote LCD Annunciator, 4100-9400 Series Remote InfoAlarm Command Centers, and 4602 Series Status Command Units (SCU) and Remote Command Units (RCU) Annunciators
- IP communicator compatibility

4010ES Agency listings:

- UL Std. 864, Fire Detection and Control (UOJZ), and Smoke Control Service (UUKL), and Releasing Service (SYZV)
- UL Std. 2017, Process Management Equipment (QVAX)
- UL Std. 1076, Proprietary Alarm Units-Burglar (APOU)
- UL Std. 1730, Smoke Detector Monitor (UULH)
- ULC Std. S527-99, Fire Detection and Control (UOJZC)
- ULC Std. S559-04, Supervising Station (DAYRC)

* See pages 5 and 6 for additional listing information. This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7165-0026:0369 for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. NYC Fire Dept COA #6095. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

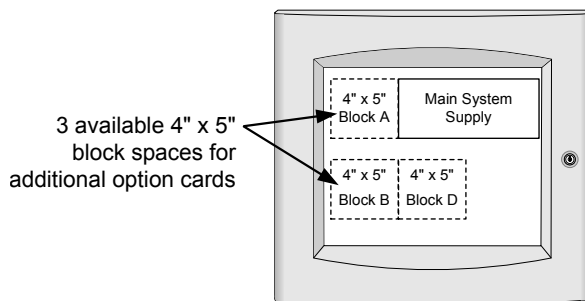
Introduction

4010ES Series Fire Detection and Control Panels provide leading edge installation, operator, and service features for customer applications in the mid-range addressable fire alarm systems market. An on-board Ethernet port provides fast external system communications to expedite installation and service activity. Dedicated compact flash memory archiving provides secure on-site system information storage of electronic job configuration files to meet NFPA 72 (*National Fire Alarm and Signaling Code*) requirements.

Modular design. A variety of functional modules are available to meet specific system requirements. Selections allow panels to be configured for either Stand-Alone or Networked fire control operation.

Panel Hardware

The Master Controller and Main System Supply are mounted in the upper section of the 4010ES cabinet.



Panel Hardware (Continued)

4010ES Block Space Option Cards mount to the left of the 4010ES Main System Supply. There are 3 available 4" x 5" blocks for mounting 4010ES hardware options.

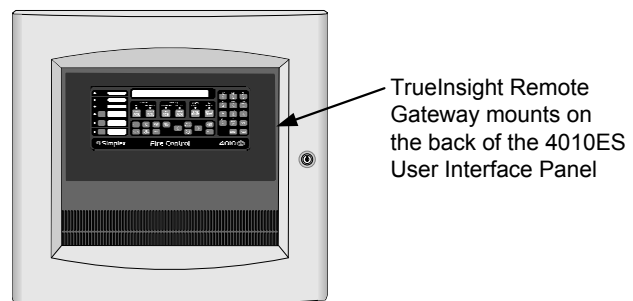
Other 4010ES Options: The 4010ES City Connect module or the optional Alarm Relay module mount directly to the Main System Supply. These options are mutually exclusive.

Network Media modules mount directly to the 4010ES Network Interface Card.

The TrueInsight Remote Gateway mounts on the back side of the 4010ES User Interface Panel.

The Battery Compartment located in the bottom of the 4010ES cabinet accepts two batteries, up to 33 Ah, without interfering with expansion module space.

The illustrations below identify mounting locations available for optional 4010ES modules.



Mounting Locations for Optional Modules

Mechanical Description

- Mounting box provides convenient stud markers for drywall thickness and nail-hole knockouts for quicker mounting
- Smooth box surfaces are provided for locally cutting conduit entrance holes exactly where required
- The hinged User Interface panel easily opens for internal access
- Modules are power-limited (except as noted, such as relay modules)
- Doors include tempered glass inserts, boxes and doors are available in platinum or red
- Box and door/retainer assemblies are included with Basic Panel assemblies
- Cabinet assembly is rated NEMA 1 and IP 30
- Cabinet assembly design has been seismic tested and is certified to IBC and CBC standards as well as to ASCE 7 categories A through F, requires battery brackets as detailed on data sheet S2081-0019

Software Feature Summary

- TrueAlarm individual analog sensing with front panel information and selection access
- “Dirty” TrueAlarm sensor maintenance alerts, service and status reports including “almost dirty”
- TrueAlarm magnet test indication appears as distinct “test abnormal” message on display when in test mode
- TrueAlarm sensor peak value performance report
- **“Install Mode”** allows grouping of multiple troubles for uninstalled modules and devices into a single trouble condition (typical with future phased expansion); with future equipment and devices grouped into a single trouble, operators can more clearly identify events from the commissioned and occupied areas
- Module level ground fault searching assists installation and service by locating and isolating modules with grounded wiring
- **“Recurring Trouble Filtering”** allows the panel to recognize, process, and log recurring intermittent troubles (such as external wiring ground faults), but only sends a single outbound system trouble to avoid nuisance communications
- WALKTEST silent or audible system test performs an automatic self-resetting test cycle

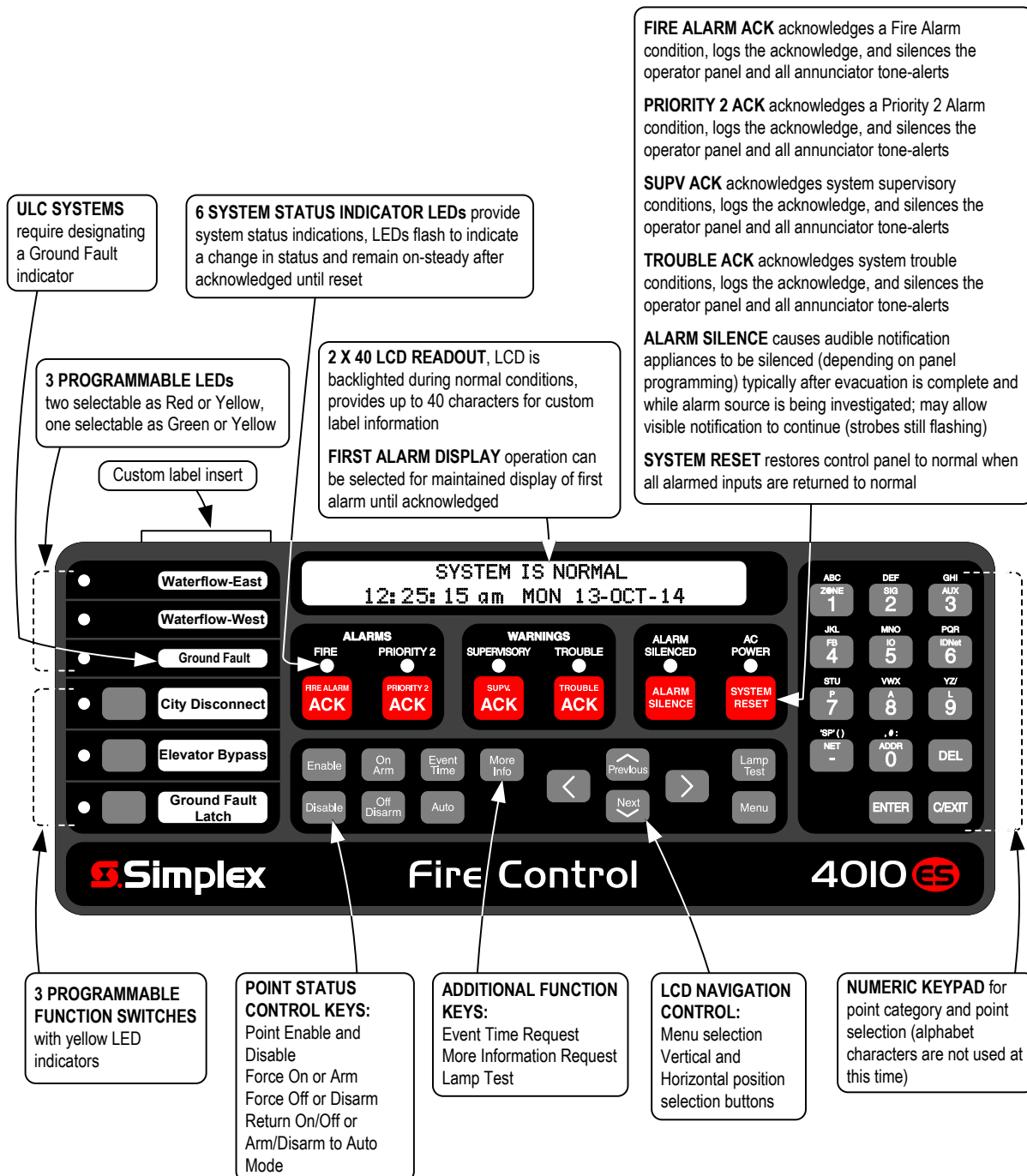
Operator Interface Features

- Convenient and extensive operator information is provided using a logical, menu-driven display
- Multiple automatic and manual diagnostics for maintenance reduction
- Convenient PC programmer label editing
- Password access control
- Alarm and Trouble History Logs (up to 2000 total events) are available for viewing from the LCD, or capable of being printed to a connected printer, or downloaded to a service computer

Convenient Status Information. With the locking door closed, the glass window allows viewing of the display, status LEDs, and available operator switches. Features include a two-line by 40-character, wide viewing angle (super-twist) LCD with status LEDs and switches as shown in the illustration below.

LED indicators describe the general category of activity being displayed with the LCD providing more detail. For the authorized user, unlocking the door provides access to the control switches and allows further inquiry by scrolling the display for additional detail.

The following illustration identifies the primary functions of the operator interface.



Compatible Peripheral Devices

The 4010ES is compatible with an extensive list of remote peripheral devices including printers, PC Annunciators and both conventional and addressable devices including TrueAlarm analog sensors.

Addressable Device Control

Overview. The 4010ES provides standard addressable device communications for IDNet compatible devices. Using a two wire communications circuit, individual devices such as manual fire alarm stations, TrueAlarm sensors, conventional IDC zones, and sprinkler waterflow switches can be interfaced to the addressable controller to communicate their identity and status.

Addressability allows the location and condition of the connected device to be displayed on the operator interface LCD and on remote system annunciators. Additionally, control circuits (fans, dampers, etc.) may be individually controlled and monitored with addressable devices.

Addressable Operation. Each addressable device on the communication channel is continuously interrogated for status condition such as: normal, off-normal, alarm, supervisory, or trouble. Both Class B and Class A pathway operation are available. Sophisticated poll and response communication techniques ensure supervision integrity and allow for "T-tapping" of the circuit for Class B operation. Devices with LEDs pulse the LED to indicate receipt of a communications poll and can be turned on steady from the panel.

IDNet Addressable Channel Capacity. The Main System Supply provides an electrically isolated IDNet 2 signaling line circuit (SLC) that supports up to 250 addressable monitor and control points intermixed on the same pair of wires. IDNet 2 SLCs are isolated from other system reference voltages to reduce common mode noise interaction with adjacent system wiring.

IDNet 2 SLC Wiring Specifications

Maximum Distance from Control Panel per Device Load	0 to 125	4000 ft (1219 m); 50 ohms
	126-250	2500 feet (762 m); 35 ohms
Total Wire Length Allowed With "T" Taps for Class B Wiring	Up to 12,500 ft (3.8 km); 0.60 μ F	
Wire Type and Connections	Shielded or unshielded, twisted or untwisted wire*	
Connections	Terminals for 18 to 12 AWG (0.82 mm ² to 3.31 mm ²)	
Installation Instructions	579-989	

Compatibility includes: IDNet communicating devices and TrueAlarm sensors *including* QuickConnect and QuickConnect2 sensors; see data sheet S4090-0011 for additional reference

* Some applications may require shielded wiring. Review your system with your local Simplex product supplier.

TrueAlarm System Operation

Addressable device communications include operation of TrueAlarm smoke and temperature sensors. Smoke sensors transmit an output value based on their smoke chamber condition and the CPU maintains a current value, peak value, and an average value for each sensor.

Status is determined by comparing the current sensor value to its average value. Tracking this average value as a continuously shifting reference point filters out environmental factors that cause shifts in sensitivity.

Programmable sensitivity of each sensor can be selected at the control panel for different levels of smoke obscuration (shown directly in percent) or for specific heat detection levels. To evaluate whether the sensitivity should be revised, the peak value is stored in memory and can be easily read and compared to the alarm threshold directly in percent.

CO sensor bases combine an electrolytic CO sensing module with a TrueAlarm analog sensor to provide a single multiple sensing assembly using one system address. The CO sensor can be enabled/disabled, used in LED/Switch modes and custom control, and can be made public for communication across a fire alarm Network. (refer to data sheet S4098-0052 for details)

TrueAlarm heat sensors can be selected for fixed temperature detection, with or without rate-of-rise detection. Utility temperature sensing is also available, typically to provide freeze warnings or alert to HVAC system problems. Readings can be selected as either Fahrenheit or Celsius.

TrueSense Early Fire Detection. Multi-sensor 4098-9754 provides photoelectric and heat sensor data using a single 4010ES IDNet address. The panel evaluates smoke activity, heat activity, *and their combination*, to provide TrueSense early detection. For more details on this operation, refer to data sheet S4098-0024.

Diagnostics and Default Device Type

Sensor Status. TrueAlarm operation allows the control panel to automatically indicate when a sensor is almost dirty, dirty, and excessively dirty. The NFPA 72 requirement for a test of the sensitivity range of the sensors is fulfilled by the ability of TrueAlarm operation to maintain the sensitivity level of each sensor. CO Sensors track their 10 year active life status providing indicators to assist with service planning. Indicators occur at: 1 year, 6 months, and when end of life is reached.

Modular TrueAlarm sensors use the same base and different sensor types (smoke or heat sensor) and can be easily interchanged to meet specific location requirements. This allows intentional sensor substitution during building construction when conditions are temporarily dusty. Instead of covering smoke sensors (causing them to be disabled), heat sensors may be installed without reprogramming the control panel. The control panel will indicate an incorrect sensor type, but the heat sensor will operate at a default sensitivity to provide heat detection for building protection at that location.

Master Controller (CPU)

- The 4010ES Master Controller includes dedicated 2GB compact flash Mass Storage memory for on-site system information storage and convenient Ethernet service port access
- Convenient front panel accessed Ethernet port for quick and easy **download** of site-specific programming
- **AND**, firmware enhancements are made via software downloads to the on-board flash memory
- Every downloaded job is automatically stored to Compact flash without overwriting earlier versions providing a means for recovering previous configurations
- Downtime is reduced because the system stays running during download
- Modifications can be **uploaded** as well as downloaded for greater service flexibility
- Mass Storage allows job specific files to be stored in the control panel such as test and inspection reports, record drawings, specifications, and more...
- Ethernet connectivity options include Building Network Interface Module (BNIC) and SafeLINC Internet Interface
- RUI (Remote Unit Interface) communications port supports either Class B or Class A operation for remote annunciation equipment

Basic Panel Description

4010ES panels include:

- An Operator Interface, Master Controller with 2 GB Compact Flash, IDNet 2 dual loop communications that provides Class B or Class A operation for up to 250 addressable IDNet points, with dual short circuit isolating loop outputs
- 8 A power supply with up to 2 A of auxiliary power, 110 Ah (UL) / 50 Ah (ULC) battery charger (33 Ah maximum in the control panel cabinet); 4 Class A or Class B NACs rated @ 3 A each for Special Application Appliances, selectable for synchronized strobe, or SmartSync horn/strobe operation over two wires; and 2 A for Regulated 24 DC operation; 1 programmable auxiliary relay rated for 2 A @ 32 VDC
- 1 RUI Class B or Class A communications port for remote annunciation devices; cabinet and door

Support is for up to 20 internal and external card addresses. Other standard options may be provided depending on model (see basic panel model selection below for additional details on specific models).

Main System Supply

The Main System Supply provides the power source and the Input/Output connections for the basic 4010ES panel. The main features are listed in the Basic Panel description below.

Basic Panel Model Selection

Model*	Panel Color	Language & Voltage	Listings	Features	Supv. Current	Alarm Current	Available Option Blocks
					(see notes below)		
4010-9401(BA)	Red	English 120 VAC	UL, CSFM, FM, NYC Fire Dept	Basic panel with 2x40 LCD Operator Interface and (1) Two-loop Isolated IDNet 2 Communications Channel, Class A or Class B, with support for up to 250 addressable IDNet points	316 mA	430 mA	3 4"x5" blocks
4010-9402(BA)	Platinum						
4010-9403(BA)	Red	English 120 VAC	UL, ULC, CSFM, FM, NYC Fire Dept	Same features as above with 48 LED annunciation	336 mA	495 mA	
4010-9404(BA)	Platinum						
4010-9405	Red	French 120 VAC	ULC, CSFM, FM				
4010-9406	Platinum						

* Models with (BA) are available as assembled in the USA by adding the suffix "BA".

Current Notes:

1. Supervisory and Alarm current specifications are for determining battery standby requirements.
2. Current specifications include an active RUI channel and alarm currents include 20 IDNet device LEDs activated.
3. Actual IDNet channel device current is not included, refer to page 6 for details.
4. For models with 48 LED Annunciation, Alarm also includes 24 LEDs activated.

Addressable Device Load Specifications for Battery Standby

Addressable Channel	Device Load	Supervisory Current	Alarm Current
Main System Supply IDNet 2 Communications Channel Output (20 LEDs in alarm are included with panel alarm current) Supervisory = 0.8 mA per device Alarm = 1 mA per device	With 250 Devices, Add	200 mA	250 mA
	With 125 Devices, Add	100 mA	125 mA
	With 50 Devices, Add	40 mA	50 mA

Block Space Option Card Selection

Note: Refer to diagram on page 2 for Option Module availability. Supervisory and Alarm current specifications are for determining battery standby requirements.

**Single Block Option Modules, Select Three (3) Maximum if No Dual Block Module is Selected;
Select One (1) Maximum if a Dual Block Module or the Module Bracket is Selected**

Model	Features	Option Block Usage	Supervisory Current	Alarm Current
4010-9912	Serial DACT	1 Block (must mount in block D under main system supply)	30 mA	40 mA
4010-9908	4 Point Aux Relay Module	1 Block	15 mA	60 mA
4010-9916	Voltage Regulator Module, 22.8 to 26.4 VDC (25 VDC nominal); isolated and resettable output; includes earth detection circuit and trouble relay for status monitoring	1 Block	3 A maximum with 2.5 A load	4.9 A maximum with 4 A load
4010-9918	Dual RS-232 Module	1 Block	60 mA	60 mA
4010-9915	BACpac Ethernet Portal Module; requires 4010-9918 RS-232 Module (no address required)	1 Block	123 mA	123 mA
4010-9901	VESDA HLI	1 Block	60 mA	60 mA

Dual Vertical Block (Flat) Modules, Select One, or Two with 4010-9928 Bracket Kit (except for Media Cards)

Model	Features	Option Block Usage	Supervisory Current	Alarm Current
4010-9928	Dual Vertical Block Card Mounting Kit, allows selecting two, dual Vertical Block (flat) modules from the list below	2 Vertical Blocks	NA	NA
4010-9922	Modular Network Interface Card (requires two media modules, see below)	2 Vertical Blocks	30 mA	30 mA
4010-9818	Network Media Card Wired	N/A (mounts to 4010-9922)	55 mA	55 mA
4010-9819	Network Media Card Fiber Optic		25 mA	25 mA
4010-9914	Building Network Interface Card	2 Vertical Blocks	236 mA	236 mA
4010-9923*	SafeLINC Internet Interface	2 Vertical Blocks	115 mA	115 mA
4010-9924*	Modem Physical Bridge Class B	Requires one of the 2 Vertical Block spaces on the 4010-9928 Mounting Kit	193 mA	193 mA
4010-9925*	Modem Physical Bridge Class X		246 mA	246 mA
4010-9926**	TCP/IP Physical Bridge Class B	3 Block "L" Shape, requires one of the 2 Vertical Block spaces on the 4010-9928 Mounting Kit, plus Block D	196 mA	196 mA
4010-9927**	TCP/IP Physical Bridge Class X		236 mA	236 mA

Dual Vertical Block (Slot) Modules, Select One if no Dual Vertical (Flat) Modules from Above are Selected

Model	Features	Option Block Usage	Supervisory Current	Alarm Current
4010-9920	8 Zone Initiating Device Circuit - Class B	2 Vertical Blocks (mother/daughter card)	75 mA	195 mA
4010-9921	8 Zone Initiating Device Circuit - Class A			

*UL, ULC, and CSFM listed.

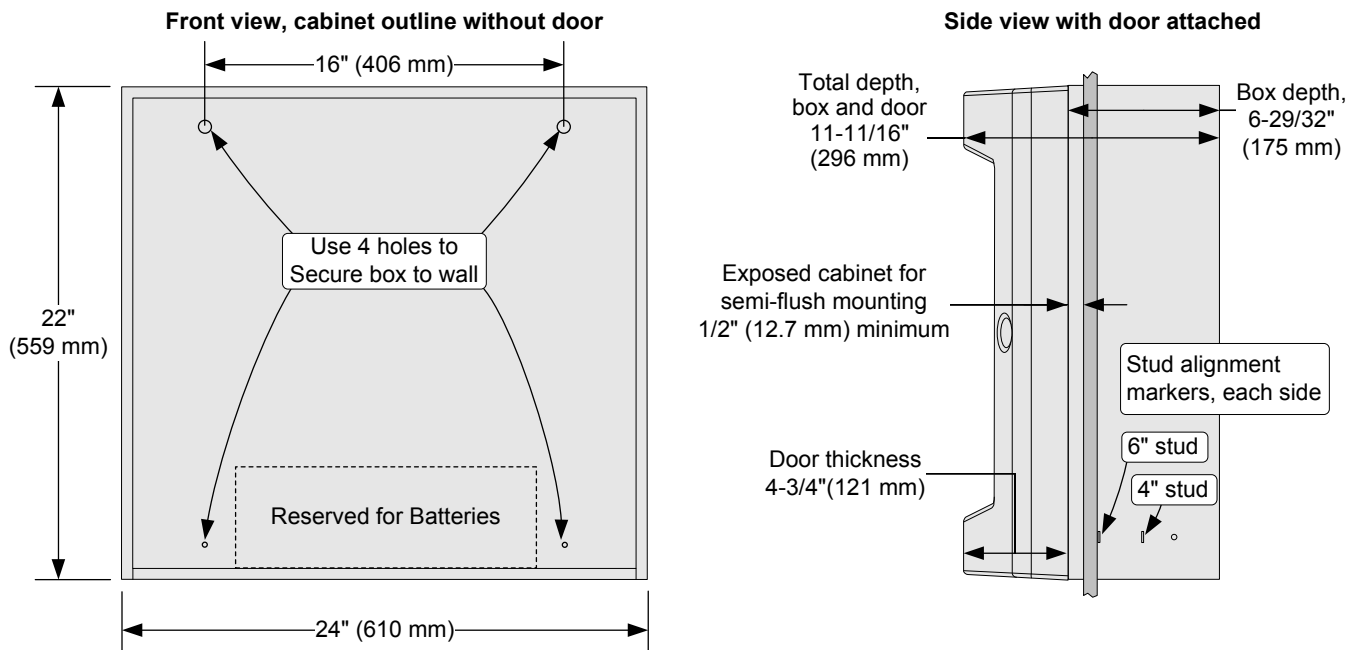
** FM Approved only.

Additional Panel Option Selection (block space is not used)

Model	Features	Supervisory Current	Alarm Current	Mounting Requirements
4010-9909	City Connect Module w/ disconnect switches	20 mA	36 mA	Select one maximum, mounts on Main System Supply
4010-9910	City Connect Module	20 mA	36 mA	
4010-9911	Alarm Relay Module	15 mA	37 mA	
4190-6105*	TrueInsight Remote Gateway	62 mA	62 mA	Mounts on Front Door
4100-5128	Battery Distribution Terminal Block, mounts to side of box, required when battery connection leaves the 4010ES box (also used in the 4100ES fire alarm control panel)			

* Refer to data sheet S4100-0063 and contact your local Simplex product representative for more details.

Cabinet Dimension Reference



Miscellaneous Accessories

LED Kits

Model	Description
4100-9843	8 Yellow LED Kit
4100-9844	8 Green LED Kit
4100-9845	8 Red LED Kit
4100-9855	8 Blue LED Kit

End User Programming Tools

Model	Description
4100-8802	End User Programming Unit Software
4100-0292	Custom Label Editing (USB Dongle)
4100-0295	Port Vectoring Setup and Control (USB Dongle)
4100-0296	Access Level/Passcode Editing (USB Dongle)
4100-0298	WalkTest Configuration Setup and Control (USB Dongle)

Factory Programming Options

Model	Description
4010-8810	Factory Programming (select)
4010-0831	Custom Labels and Programming (requires 4010-8810)

4010ES Card Address Allocation

The 4010ES has a maximum Internal and External Card Address Limit of 20 Card Addresses. Use the Table below to calculate 4010ES card address allocation.

INSTRUCTIONS: Below is a list of 4010ES equipment and the quantity of card addresses they consume

1. For the applicable control panel, write in the Card Address Consumption value in the Card Address Allocation column.
(Note: Only select 1 control panel)
2. For the option cards to be installed on the 4010ES, write in the Card Address Consumption value in the Card Address Allocation column.
3. Total the Card Address Allocation column (total must not exceed 20).

Model	Description	Card Address Consumption	Card Address Allocation	Notes
Control Panels (Select One)				
4010-9401 4010-9402	2x40 Display, (1) IDNet 2 Communications Channel, Single Bay Box	2		
4010-9403 4010-9404 4010-9405 4010-9406	2x40 Display, (1) IDNet 2 Communications Channel; 48 Pluggable LED Module	3		4010-9405 & 4010-9406 are for Canada
Panel Option Cards (2Select As Required)				
4010-9901	Flat VESDA HLI Card	1		
4010-9922	Flat Network Card	1		
4010-9908	4 Point Flat Aux Relay Module	1		
4010-9912	Serial DACT	1		
4010-9923	SafeLINC Internet Interface Card	1		
4010-9914	Building Network Interface Card	1		
4010-9918	Dual RS-232 Module	1		
4010-9920	8 Zone Initiating Device Circuit - Class B	1		
4010-9921	8 Zone Initiating Device Circuit - Class A	1		
Remote Annunciation (Select As Required)				
4100-9401	Red Cabinet, English	2		
4100-9403	Platinum Cabinet, English	2		
4100-9421	Red Cabinet, French	2		for Canada
4100-9423	Platinum Cabinet, French	2		for Canada
4100-9441	Red Cabinet, with blank inserts for key labels	2		
4100-9443	Platinum Cabinet, with blank inserts for key labels	2		
4606-9102	4010ES RUI LCD Annunciator, English	1		
4606-9102BA	4010ES RUI LCD Annunciator, English	1		
4606-9102CF	4010ES RUI LCD Annunciator, French	1		for Canada
4602-9101	Status Command Unit (SCU) LED Annunciator	1		
4602-9102	Remote Command Unit (RCU) LED Annunciator w/control	1		
4602-9150	Graphic I/O RCU/SCU Assembly for custom annunciator panels	1		
4602-7101	Graphic I/O RCU/SCU Assembly for custom annunciator panels	1		
4602-7001	RCU for cabinet mount	1		
4602-6001	SCU for cabinet mount	1		
4100-7401	24 Point I/O Graphic Module for custom annunciator panels	1		
4100-7402	64/64 LED Switch Controller for custom annunciator panels	1		
4100-7403	32 Point LED Driver Module for custom annunciator panels	1		
4100-7404	32 Point Switch Input Module for custom annunciator panels	1		
Total Card Addresses (Not to Exceed 20)		TOTAL		

General Specifications

AC Input Current	4 A maximum, 120 VAC @ 60 Hz nominal		
Power Supply Output Ratings (nominal 28 VDC on AC, 24 VDC on battery backup)	Total Power Supply Output Rating	Including module currents and auxiliary power outputs; 8 A total for "Special Application" appliances; 4 A total for "Regulated 24 DC" power (see below for details)	Output switches to battery backup during mains AC failure or brownout conditions
	Auxiliary Power Tap	2 A maximum, rated 19.1 to 31.1 VDC	
Special Application Appliances, maximum of 70 appliances per NAC	Simplex 4901, 4903, 4904, and 4906 Series horns, strobes, and combination horn/strobes and speaker/strobes (contact your Simplex product representative for compatible appliances)		
Regulated 24 DC Appliances	Power for other UL listed appliances; use associated external synchronization modules where required		
Battery Charger Rating (sealed lead acid batteries)	Battery capacity range	UL listed for battery charging of 6.2 Ah up to 110 Ah; ULC listed for charging up to 50 Ah batteries; batteries above 33 Ah require separate cabinet	
	Charger characteristics and performance	Temperature compensated, dual rate, recharges depleted batteries within 48 hours per UL Standard 864; to 70% capacity in 12 hours per ULC Standard S527	
Environmental	Operating Temperature	32° to 120°F (0° to 49° C)	
	Operating Humidity	Up to 93% RH, non-condensing @ 90° F (32° C) maximum	
Additional Technical Reference	Installation Instructions	579-989	
	Operating Instructions	579-969	

Additional Compatible Equipment and Reference

Subject	Data Sheet	Subject	Data Sheet
4010ES Agent Release Applications and Accessories	S4010-0005	Network Communications	S4100-0056
Agent Release Accessories	S2080-0010	Multi-Signal Fiber Optics	S4100-0049
Building Network Interface	S4100-0061	4602 Series SCU/RCU	S4602-0001
SafeLINC Internet Interface	S4100-0062	PC Annunciator	S4190-0013
Interface to VESDA Air Aspiration Detection Systems	S4100-0026	Addressable Device Compatibility, IDNet Communication Sensors and Devices	S4090-0011
Serial DACT (SDACT)	S2080-0009	4009 IDNet NAC Extender	S4009-0002
Fire Alarm Network Overview	S4100-0055	4003EC Voice Control Panel	S4003-0002
TrueInsight Remote Service	S4100-0063	120 VAC Desktop Remote Printer	S4190-0011
4606-9102 Remote LCD Annunciator	S4606-0002	110 Ah Batteries and Cabinets	S2081-0012
Graphic I/O Modules	S4100-0005	Remote 110 Ah Battery Chargers and Cabinets	S4081-0002
Remote InfoAlarm Command Center	S4010-0008	BACpac Ethernet Portal Module	S4100-0051
PC Annunciator	S4190-0013	Network Physical Bridge	S4100-0057
TCP/IP Physical Bridge	S4100-0029		

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