Life Alarm™
Fire Alarm Controls

UL, ULC Listed
FM Approved
MEA Approved*

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

STANDARD FEATURES

- **80 Character alphanumeric, super-twist liquid crystal display**
- **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**
- **Compatible with Simplex:**
  - 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

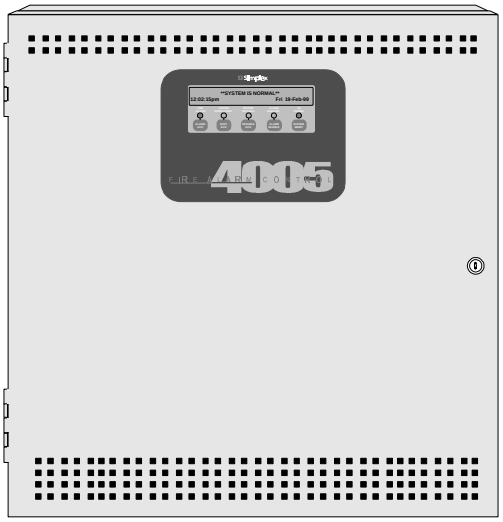
- **Menu-Driven Programming**
- **On-Site Programmable Custom Labels**
- **Four Operator Access Levels**
- **Historical Event Logs**
- **Circuit Selectable Alarm Verification**
- **Simplex WALKTEST™ performance testing****
- **Selectable active status reminder**

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 Station/City connection
  - Internal DACT
- **Additional Five Amp Power Supply**

* Accepted for use – City of New York Department of Buildings – MEA35-93E.

** WALKTEST Performance Testing is protected under US Patent Number 4,725,818.



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 of the selectable features is performed by using the display and the panel control switches while in the programming mode.

APPLICATIONS

The 4005 series 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.

† NACs may be individually configured for dry contact relay operation

4005 STANDARD CONFIGURATION INCLUDES:

4005 Central Processing (CPU) Board:

- Contains the main microprocessor and 4005 programming, evaluates the status of all I/O modules, processes the required responses, and provides a watchdog timer that resets the panel in the event of an abnormal operation
- Controls the LCD readout and switches that comprise the operator interface
- Controls the flash EPROM that contains the non-volatile site-specific programming information
- **4-Wire Smoke Detector Power.** Dedicated terminals, 5 second reset, rated 24 VDC, 500 mA, open collector type, power limited and short circuit protected
- **Remote Unit Serial Interface (RUI).** Connections for up to 16, style 4 (class B), supervised remote annunciators model 4602-9102, Remote Control Unit (RCU), or 4602-9101, Status Command Unit (SCU). (Further described under Accessories on page 5.)

Power Distribution Board:

- Connections for up to 5 plug-in module cards
- **Auxiliary power connections.** Two, 24 VDC, each rated for 2 A, power limited. Connections are isolated from NAC power.

Power Supply/Battery Charger:

- **Switch Selectable** for 120 or 240 VAC
- **24 VDC Power**, 4 A, regulated and power limited, is available specifically for notification appliances and auxiliary output use, via two taps of 2 A each.
- **Internal System Operating Power** is supplied via separate power limited connections.
- **Battery Charging** for up to 18 Ah batteries mounted within the 4005 cabinet and up to 33 Ah batteries when mounted in an external battery cabinet.
- **Function Monitoring.** Includes: missing, depleted, and low battery, Earth fault detection, AC power loss, AC power brownout (low input voltage), signal power overload, and supply voltage monitoring.
- **Depleted Battery Trouble Indication** advises when standby operation has exceeded battery capacity.

Eight, Initiating Device Circuits (IDCs):

- Two, 4 circuit IDC plug-in modules are standard, providing 8, Style B (Class B) IDCs.
- Standard IDCs are low current, support up to 30 Simplex detectors per IDC, 2 mA maximum (for detectors with relay bases, use high current expansion modules, see chart on page 7).
- For further information, refer to field wiring diagram 841-990 and Installation Instructions 574-068.

IDCs *(Continued)*:

- **IDC operation is individually programmable** with the following operating mode choices (an abbreviated mode description is part of the IDC display information):

  Combination Fire/Emergency
  Combination Smoke/Fire Zone
  Combination Smoke/Manual Station
  Current Limit=Fire Alarm, Short/Open=Trouble
  Duct Detector
  Fire Alarm Generic
  Fire Pump Monitor
  Flame Detector
  Generator Monitor
  Heat Detector
  Latching Supervisory
  Manual Station
  Non-Alarm Utility
  Smoke Detector
  Sprinkler Supervision, Normally Open
  Sprinkler Supervision, Normally Closed
  Supervisory Fire Pump Monitor
  Supervisory Generator Monitor
  Supervisory, Generic
  Trouble Monitor
  Verified Generic
  Verified Smoke Zone
  Verified Combination Smoke/Fire Zone
  Verified Combination Smoke/Manual Station
  Waterflow Switch
  Waterflow/Sprinkler Supv., Normally Open (WSO)
  Waterflow/Sprinkler Supv., Normally Closed (WSC)

Four, Notification Appliance Circuits (NACs):

- One, 4 circuit NAC/Relay plug-in module is standard, providing 4, Style Y (Class B) NACs that can be individually reconfigured for dry contact relay operation.
- **NAC operation is individually programmable** as Steady Signaling, Temporal Coded, March Time @ 20 BPM, or March Time @ 120 BPM, and with the following operating modes (an abbreviated mode description is part of the NAC display information):

  AHU On/Off Relay, Single Relay Control
  AHU On Relay, Dual Relay Control
  AHU Off Relay, Dual Relay Control
  Audible Signal, On-Until-Silenced
  Audible Signal, On-Until-Reset
  Doorholder Control
  Elevator Capture, Primary
  Elevator Capture, Alternate
  Generic Signal
  Sprinkler Supervisory Signal, On-Until-ACK
  Trouble/Supervisory Signal, On-Until-ACK
  Trouble/Supervisory Signal, On-Until-Clear
  Visible Signal, On-Until-Silenced
  Visible Signal, On-Until-Reset
  Waterflow Signal, On-Until-Silenced
  Waterflow Signal, On-Until-Reset

Notification Appliance Circuit (NAC) Relay Mode Operation:

- **NAC/RELAY Selection.** Each NAC can be on-site selected for NAC operation or for unsupervised, dry contact, auxiliary relay operation. When operating in the relay mode, either the normally open or the normally closed contact can be connected to the output terminal block. Contacts are rated at 2 A, 32 VDC, for transient suppressed loads.
- **Relay Operation** is individually programmable with the following operating mode choices (an abbreviated mode description is part of the relay display information).

RELAY MODES:

AHU On/Off Relay, Single Relay Control
AHU On Relay, Dual Relay Control
AHU Off Relay, Dual Relay Control
Alarm Relay, On-Until-Silenced
Alarm Relay, On-Until-Reset
Doorholder Control
Elevator Capture, Primary
Elevator Capture, Alternate
Generic Relay
Sprinkler Supervisory Signal, On-Until-Acknowledged
Trouble/Supervisory Signal, On-Until-Acknowledged
Trouble/Supervisory Signal, On-Until-Clear
Visible Signal, On-Until-Silenced
Visible Signal, On-Until-Reset
Waterflow Signal, On-Until-Silenced
Waterflow Signal, On-Until-Reset

4005 BASIC OPERATOR FUNCTIONS

Display Indications.

Upon receiving an abnormal condition of alarm, supervisory, or trouble, the 80 character backlit LCD will identify the quantity and type of abnormal indications. With the locked door closed, the display, status LEDs and primary operator switches are visible through the transparent door viewing panel as shown in FIGURE 1. This figure represents the LCD during normal conditions showing normal status, time, and date.

FIGURE 2 represents typical fire alarm display screens.

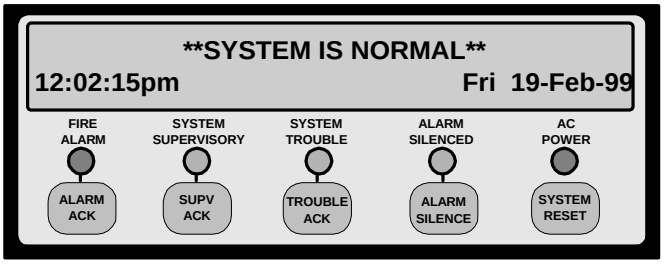


FIGURE 1. Basic Operator Function Keys with Normal Display of Status, Time, and Date

For this example, the presence of three fire alarm conditions is shown in the top screen – fire zones 2, 7, and 6, displayed in chronological order of occurrence (up to 10 zones may be shown). The display will alternate with the one shown below it as the operator is prompted to assist with the next required action.

FIRE = 3	**SUPERVISORY = 0**	**TROUBLE = 0**
FIRE ZONES: 02 07 06		

FIRE = 3	**SUPERVISORY = 0**	**TROUBLE = 0**
** **FIRE** **	**Press ACK to Review**	

FIGURE 2. Typical 4005 Displays with Alarm Activity

Alarm ACK, Supervisory ACK, Trouble ACK.

The ALARM ACK, SUPV ACK, or TROUBLE ACK key will silence the local tone-alert, corresponding to the type of abnormal condition. Subsequent entry of the appropriate ACK key will chronologically scroll through the specifics for each abnormal condition. Screen information includes custom labels for each zone that provides a detailed report of the location, device type description, device condition, and list count for the first point in the Alarm, Supervisory, or Trouble list.

FIGURE 3 represents a typical screen that would appear after using the ALARM ACK key to scroll to the first fire condition. It displays the zone location as “First Floor East Wing Room 12”, the device type as “Smoke Detector” and the device condition of “Alarm”. The 1/3 indicates that the displayed alarm is the first of three alarms present in the panel at this time. Site-specific labels can be upper or lower case and can provide a discrete annunciation that can assist fire response with clearly defined zone locations and device types.

First Floor East Wing	**Room 12**	
Smoke Detector	**ALARM**	**1/3**

FIGURE 3. Typical 4005 Fire Alarm Information Custom Label Display

Alarm Silence.

The ALARM SILENCE key will silence the notification appliances programmed for on-until-silence (typically audible notification appliances) and the ALARM SILENCED LED will remain illuminated until the panel is reset.

System Reset.

When the source of the abnormal condition is corrected, the SYSTEM RESET key will reset the panel and return the status to normal.

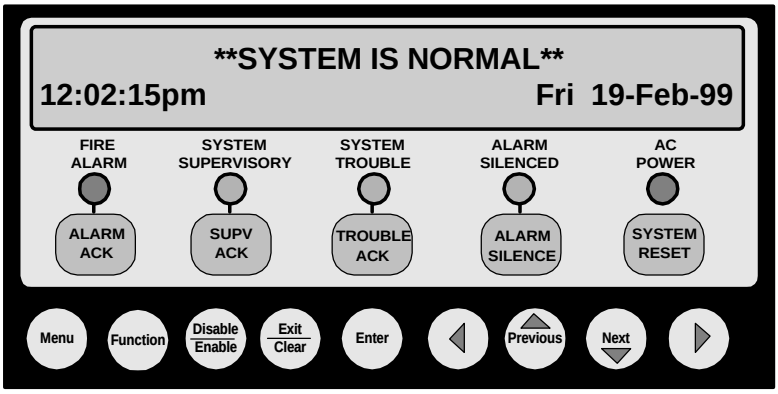


FIGURE 4. The Complete 4005 Operator Interface Includes Nine Expanded Operation/Programming Keys

Passcode Access.

The 4005 has four levels of passcode access:

Level 1 is basic access and is available by unlocking the door. Access includes the standard operator functions and historical log information.

Levels 2 and 3 are on-site programmable to control functions required by local needs such as clock set, enable/disable, Walk Test, and custom label changes.

Level 4 access provides passcode programming of critical life safety functions, access level programming, and service level diagnostics and programming.

Expanded Operator Functions.

Unlocking the door provides access to the operator control panel and reveals nine additional keys used for expanded operator functions and for circuit type and programming selections (refer to FIGURE 4).

The following expanded operator functions are available:

- **Circuit Disable/Enable**, available for each individual IDC, NAC, or relay circuit.
- **WALKTEST Performance Testing.** Simplex WALKTEST Performance Testing allows a single fire alarm system tester to manually initiate remote alarms and troubles and obtain a verification output from the NACs with an automatic Reset. Alarms are initiated to produce a pulse count that identifies the zone. With the zone number confirmed, troubles can be then initiated with a common pulse output for a complete functional test of each zone.
- **Indicator Test** confirms that all panel LED and LCD indicators are properly functioning.
- **History Logs** provide up to 50 fire alarm logs and up to 100 trouble logs. They are available for chronological review as fire, trouble, or fire and trouble combined.

Programming.

NOTE: During programming, monitoring remains active and the 4005 will perform enabled responses.

Programming Operations Include:

- Abort Enable, 30 second delay allows zone status confirmation before enabling.
- Alarm Cutout time delay.
- Active Status Reminder (Alarm/Supervisory/Trouble Resound every 8 hours).
- Alarm Silence Inhibit Timer.
- Assignment and selection of passcodes and access levels.
- Custom control equations.
- Custom label generation and revision.
- Doorholder time delay (drop upon Alarm, drop upon AC power loss).
- IDC circuit type (reference list on page 2).
- Module allocation and identification.
- NAC or Relay circuit type (reference lists on pages 2 and 3).
- NAC/Relay output coding of: Steady Signaling, Temporal Coded, March Time @ 20 BPM, or March Time @ 120 BPM.
- Setting of time and date, and selection of 12 or 24 hour format.

Menu Selection and Response Keys:

The 4005 LCD provides menu driven prompts for performing functions. Navigating through the menu is easily performed by using the operator keys at the bottom of the interface panel (see FIGURE 4).

- **Menu** always produces the main menu.
- **Function** provides a list of the available actions that can be performed depending on which programming or functional area is being displayed.

(continued next page)

Menu Selection and Response Keys (*Continued*)**:**

- **Disable/Enable** toggles status of the displayed circuit.
- **Exit/Clear** provides a path out of the chosen menu and allows manual entries to be cleared.
- **Enter** confirms the selection made and enters program changes into memory.
- **Left, Previous, Next, and Right** arrow keys move the display cursor or select screens or specific choices, depending on the displayed functional area.

4005 SYSTEM OPTIONAL MODULES

Class A (Style D/Style Z), 4 Circuit Adaptor Module for either IDCs or NACs (4005-9806):

- Individually isolated circuit design adapts either IDCs or NACs for Class A operation allowing a combination of circuit types
- Mounts on top of the module, maintaining full module capacity

Power Distribution Module (4005-9807):

- Extends 4005 capacity to ten plug-in modules
- Mounts on left side of 4005 chassis
- Required when plug-in module requirements extend beyond five and/or for connection of expansion power supply 4005-9813

Internal DACT (4005-9810):

- Reports Alarm, Supervisory, Trouble, and AC Failure
- Dual line operation with automatic 24 hour test and programmable power fail report delay

City Circuit Module (4005-9809):

- Single circuit, selectable as local energy, reverse polarity, or form “C” contact
- Reverse polarity is selectable for Alarm/Trouble, Alarm, Supervisory, or Trouble only reporting
- Up to two modules mount directly to 4005 chassis below the CPU assembly

Expansion Power Supply (4005-9813):

- Regulated 24 VDC, rated at 5 A
- Power Limited Design
- Installs on the left side of the 4005 chassis and fits behind expansion modules, allowing full module capacity
- Switch selectable for 120 VAC or 240 VAC
- Provides additional power for notification appliances, 4-wire detectors, annunciator power, or other fire alarm auxiliary functions

4005 SYSTEM CAPACITY EXPANSION MODULES

Optional and expansion modules can be easily installed and programmed on-site. Their “snap-in-place” design installs without tools or hardware, allowing configuration for the initial system capacity or for later system expansion.

2 Circuit IDC with 2 Circuit NAC/Relay (4005-9803):

- Two, standard low current IDCs
- Two circuits, individually on-site selectable as either Style B (Class B) NAC, or N.O. or N.C. relay circuits
- Combined on one plug-in module
- Operation and programming is the same as the standard control panel IDCs and NAC/Relay circuits

4 Circuit IDC Module (4005-9804):

- Four, standard low current IDCs on one plug-in module
- Operation and programming is the same as the standard control panel IDCs

4 Circuit NAC/Relay Module (4005-9805):

- Four, NAC/Relay Circuits on one plug-in module
- Operation and programming is the same as the standard control panel NAC/Relay circuits

8 Circuit I/O Module (4005-9808):

- Select each circuit as either an input or output
- Input mode supervises hard wired connections to 4601 Series annunciator switches or utility switch inputs
- Output mode is rated 24 VDC, 150 mA open collector driver, short circuit protected, UL listed for pilot duty
- Output mode provides supervised auxiliary control of a compatible annunciator or remote relay for emergency control in accordance with NFPA 72 and NFPA 101

4 Circuit IDC, High Current, Required for Detectors with Relay Bases (4005-9824):

- Four, high current IDCs on one plug-in module
- High current operation for up to 30 detectors per IDC, 3 mA maximum detector power (required for detectors with relay bases)
- Operation and programming is the same as the standard control panel IDCs

ACCESSORIES

4602 Series Annunciators:

- Supervised Serial communications with twisted, shielded pair
- SCU has 16 LED zone status indicators
- RCU has 8 LED zone status indicators, Power-On LED and Trouble LED, Local tone-alert, and Key switch enabling of Trouble and Alarm Silence, System Reset, and Manual Evacuation

4601 Series Annunciators:

- Provides LED status indications and switches for acknowledge, silence, and reset
- Modular design allows sizing as needed

ACCESSORIES *(Continued)*

2088 Series Remote Auxiliary Relays:

– For remote control of up to 10 A @120 VAC

– Models available as single or four relay package, SPDT or DPDT, with separate enclosure, for external chassis mounting, or as a single encapsulated relay

4001-9810 Fire Alarm System Control Relays:

– Four Alarm Relays mounted on a 6 gang plate, coils rated 20 mA each at 24 VDC

– Contacts rated 1/2 A at 120 VAC, 2 A at 30 VDC, for transient suppressed loads

4005-9150 and 4002 Adapter Kits for Retrofit:

– Replace existing 4002 Fire Alarm Control Panels with the 4005 panel features, supplied with high current IDC modules for convenient retrofit

– Cabinet, door, and electronics may be ordered separately to satisfy early cabinet (backbox) installation requirements

SPECIFICATIONS

Electrical		
Standard Panel Input (Switch Selectable)		102–132 VAC, 60 Hz = 2 A maximum
		204–264 VAC, 50/60 Hz = 1 A maximum
Main Power Supply Output*		4 A @ 24 VDC (Regulated)
Expansion Power Supply Input (Switch Selectable)		102–132 VAC, 60 Hz = 3 A maximum
		204–264 VAC, 50/60 Hz = 1.5 A maximum
Expansion Power Supply Output*		5 A @ 24 VDC (Regulated)
8 Circuit I/O Module	**Input Mode**	Dry Contact, supervised with 2.2 kΩ end-of-line resistor
	Output Mode	24 VDC, 150 mA, open collector
NAC Operation, Per Circuit		24 VDC nominal, 2A maximum
Relay Operation, N.O./N.C.		2 A @ 32 VDC
Resettable 4-Wire Smoke Detector Power		24 VDC, 500 mA, open collector
Auxiliary Power Connections (two taps)		2 A @ 24 VDC maximum each tap, power limited
General		
On-Site Wiring Terminal Blocks		Pluggable type, wire size is #18 to # 12 AWG
Operating Temperature		32° F to 120° F (0° C to 49° C)
Operating Humidity Range		up to 93% RH, non-condensing @ 90°F (32° C)

*** NOTE**: The power supply currents listed are entirely available for NAC appliances and auxiliary equipment. 4005 modules are powered from separate circuits.

BATTERY REQUIREMENTS (refer to Simplex document 900-012 for battery selection)

Module	Supv. (mA)	Quantity	Supv. Total	Alarm (mA)	Quantity	Alarm Total
Standard Panel* (2, 4005-9804 & 1, 4005-9805)	135	select one		293	select one	
4005-9150, Electronics Only* (2, 4005-9804 & 1, 4005-9824)	148			330		
Optional and Expansion Modules See **NOTES** ( )						
4005-9806, Class A Adapter	1	x	=	33	x	=
4005-9807, Expansion Power Distribution Module	1	x	=	1	x	=
4005-9809, 1 Circuit Remote Station/City Connect	10	x	=	10	x	=
4005-9813, Expansion Power Supply	12	x	=	12	x	=
4005-9803, 2 IDC, Low Current, and 2 NAC/Relay (1, 2, 3, 4, 5)	14	x	=	34	x	=
4005-9804, 4 IDC, Low Current (1, 2, 3)	23	x	=	57	x	=
4005-9805, 4 NAC/Relay (5)	3	x	=	34	x	=
4005-9808, 8 Circuit I/O Module	1	x	=	1	x	=
4005-9824, 4 IDC, High Current (1, 2, 4)	40	x	=	94	x	=
4005-9810, Internal DACT (6)	30	x	=	30	x	=
	Total, 4005 Modules					
*** Standard panels and 4005-9150 include IDC loop currents for both supervisory and alarm.**	**Total, 4-Wire Detector Power**		+			+
	Total, Other Auxiliary Power		+			+
	Total, Notification Appliance Power		+			+
	Total Supervisory Current			**Total Alarm Current**		

NOTES:

1. IDC supervisory currents include loop currents of 2 mA/circuit for “low” current IDCs and 3 mA/circuit for “high” current IDCs.
2. IDC Alarm currents, add as required. Low current IDCs = 30 mA/circuit; High current IDCs = 65 mA/circuit.
3. Add 8 mA supervisory current per SC, WSC point used.
4. Add 10 mA supervisory current per SC point used.
5. Add 8 mA supervisory current per circuit if used as auxiliary relay and programmed for normally on.
6. DACT Current is 45 mA when reporting.

4005 PRODUCT SELECTION CHART

Category	Model *	Description	
Standard Control Panels	4005-9101	4005 Fire Alarm Control Panel, 8 standard IDCs, 4 NAC/Relay circuits, 4 A power supply, includes cabinet and door	Beige
	4005-9102		Red
Electronics Only	4005-9150	4005 Fire Alarm Control Panel, 8 **high current** IDCs, 4 NAC/Relay Circuits, 4 A power supply, requires 4002 Adapter Kit or separately ordered cabinet and door	
Optional Modules	4005-9806	Four Circuit Class A (Style Z/Style D) Adapter Module for use with IDC and/or NAC modules, standard or expansion. Mounts on top of plug-in IDC/NAC module. Circuits convert either NAC or IDC, or combination, compatible with module being adapted.	
	4005-9807	Additional Five Slot Power Distribution Module, required when plug-in module count exceeds five, or for connection of Expansion Power Supply	Qty, 1 Max.
	4005-9809**	1 Circuit City Module, chassis mounted, below CPU	Qty, 2 Max.**
	4005-9810**	Internal Dual Line DACT for connecting to RJ31X Telco jacks, requires one DACT cable per line (see 4005 Accessories on page 8)	Qty, 1 Max.**
	4005-9813	Expansion Power Supply, 24 VDC, 5 A, Regulated. Chassis mounted, beneath left side modules, requires 4005-9807 Power Distribution Module.	Qty, 1 Max.
Expansion Modules (system capacity is 10 expansion slots, 3 expansion slots are used in base panel)	4005-9803	Standard Operation, 2 Circuit IDC with 2 NAC/Relay	
	4005-9804	Standard Operation, 4 Circuit IDC Module	
	4005-9805	4 Circuit NAC/Relay Module	
	4005-9808	8 Circuit Programmable I/O Module	
	4005-9824	4 Circuit IDC Module, high current operation, Class B, for detectors with relay bases	
Cabinets	2975-9209	Beige 4005 Cabinet	Order cabinets if required for pre-installation. 4005-9150 Electronics only model requires a cabinet and door or a 4002 Adapter Kit.
	2975-9210	Red 4005 Cabinet	
Doors	4005-9857	Beige Door	
	4005-9858	Red Door	
Batteries† (select one set, refer to chart on page 6)	2081-9272	6.2 Ah Battery, 12 VDC	2 required
	2081-9274	10 Ah Battery, 12 VDC	2 required
	2081-9275	18 Ah Battery, 12 VDC	2 required
	2081-9271	33 Ah Battery, 12 VDC, Requires External Battery Cabinet 4009-9802.	2 required
	4009-9802	External Battery Cabinet, Beige with solid door, includes battery harness. For mounting close-nippled to 4005 cabinet. Cabinet size: 25 3/4" W x 20 3/4" H x 4 1/8" D (654 mm x 527 mm x 105 mm)	
4002 Adapter Kits (for mounting 4005-9150 electronics into a Simplex Model 4002 cabinet)	4005-9850	Two Unit, 4002	Includes 4005 Chassis Adapter Plate With **Beige** Retainer Panel
	4005-9851	Four Unit, 4002	
	4005-9852	Six Unit, 4002	
	4005-9853	Two Unit, 4002	Includes 4005 Chassis Adapter Plate With **Red** Retainer Panel
	4005-9854	Four Unit, 4002	
	4005-9855	Six Unit, 4002	

* ULC listed devices are designated with a "C" suffix (example: 4005-9101C).

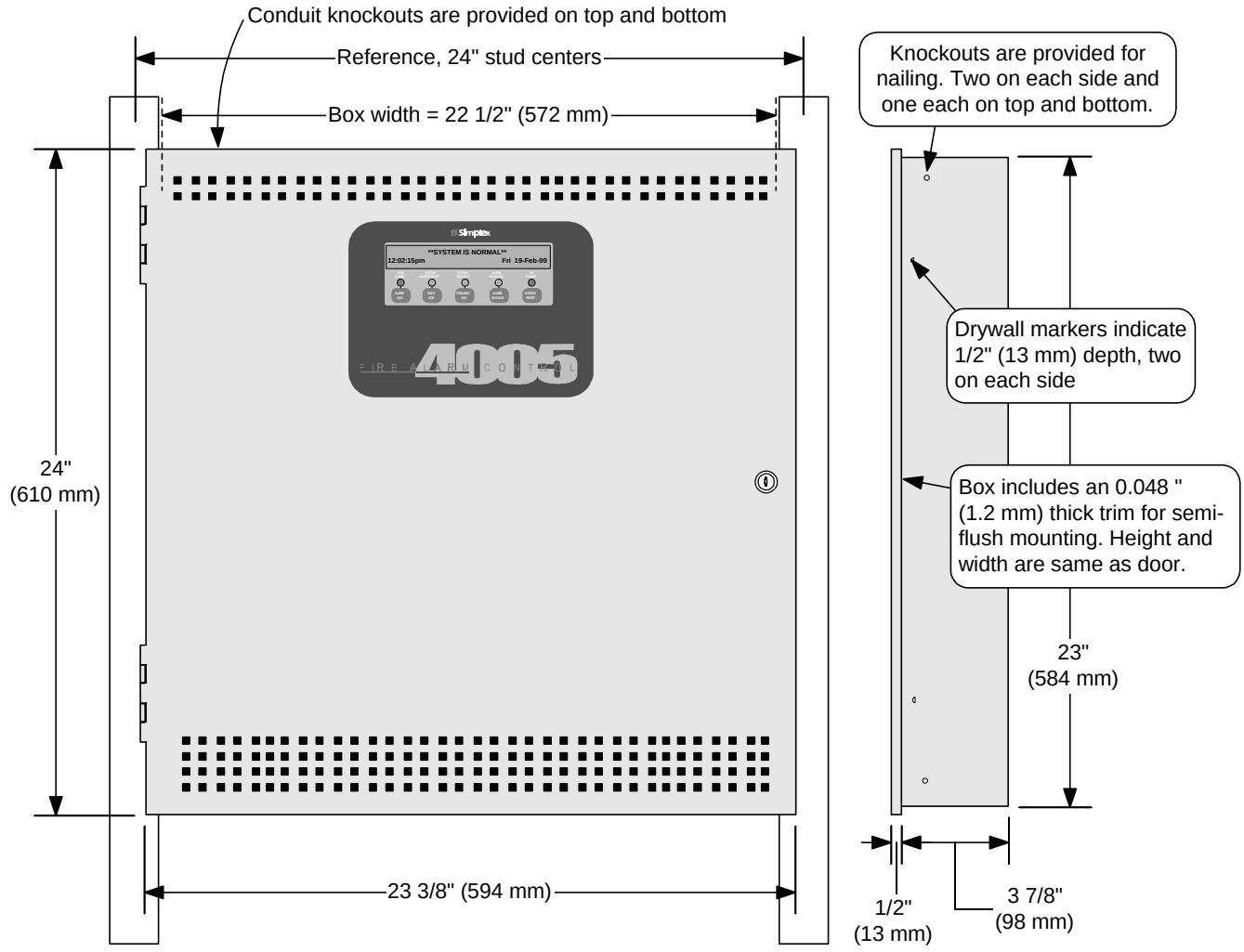
** Select either DACT module or one or two City Connection modules. The DACT is programmed using a terminal or a laptop computer in terminal emulation mode. Connection and programming details are provided with the installation instructions (publication 574-049).

† Refer to Simplex field wiring diagrams 841-990 and battery selection document 900-012 for proper battery size.

4005 ACCESSORIES SELECTION CHART

Model	Description	
4602-9101	Status Command Unit (SCU), 16 LED serial connection annunciator	
4602-9102	Remote Command Unit (RCU), 8 LED serial connection annunciator with remote tone-alert and control panel status LEDs, and switch control for Trouble and Alarm Silence, System Reset, and Manual Evacuation (4602 Series Annunciators are available for multiple packaging applications, for further information, refer to data sheets S4602-0001, S4602-0004, and S4602-0005)	
4601 Series	LED/Switch Annunciators, modular design allows selection of required LEDs and control switches. (Refer to data sheet S4601-0002)	
2088 Series	10 A Remote Auxiliary Relays (Refer to data sheet S2088-0010)	
4001-9810	4 Alarm Relays mounted on a 6 gang plate, Coils: 20 mA each at 24 VDC, Contacts: 1/2 A at 120 VAC, 2 A at 30 VDC, for transient suppressed loads (Refer to data sheet S4001-0003)	
2080-9046	DACT Cable with RJ45 Plug	7 ft long (2134 mm)
2080-9047		14 ft long (4267 mm)

MOUNTING DIMENSIONS



NOTE: A system ground must be provided for Earth Detection and transient protection devices. This connection shall be made to an approved, dedicated Earth connection per NFPA 70, article 250, and NFPA 780.

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