

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<sup>®</sup> 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

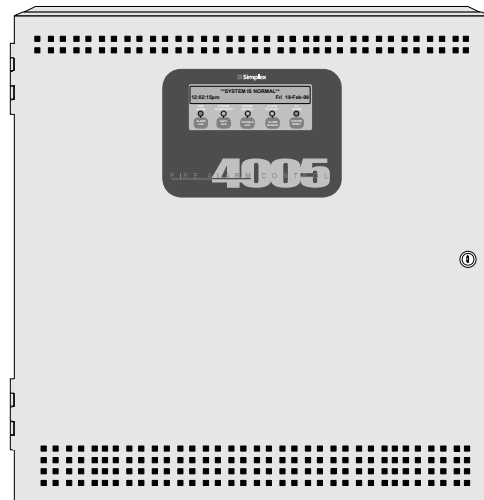
## SOFTWARE FEATURES

- 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<sup>†</sup>
  - Four circuit NAC/relay<sup>†</sup>
  - 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
- Additional five amp power supply

\* 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 7165-0026:212 for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. Accepted for use – City of New York Department of Buildings – MEA35-93E. See page 7 for ULC designations. Additional listings may be applicable; contact your local Simplex product supplier for the latest status.



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.

\*\* WALKTEST performance testing is protected under US Patent No. 4,725,818.

† NACs may be individually configured for dry contact relay operation.

**NOTE:** Contact your local Simplex product supplier for fire alarm control panels suitable for Release Control applications.

## 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, supply voltage monitoring, and charger failure.
- **Depleted Battery Trouble Indication** advises when standby operation has exceeded battery capacity.

### Internal DACT Module:

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

### 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 20 Simplex detectors per IDC, 2 mA maximum (for detectors with relay bases, use high current expansion modules, see chart on page 7).

## 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**

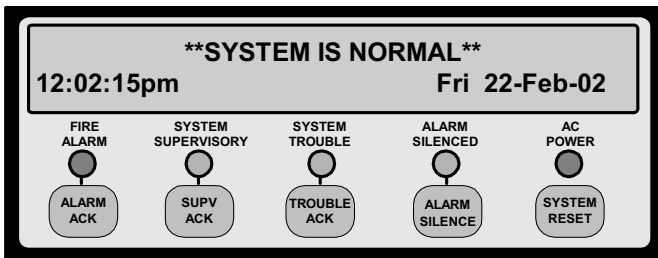
Upon receiving an abnormal condition of alarm, supervisory, or trouble, the 80 character backlit LCD will identify the quantity and type of abnormal indications. With the locked door closed, the display, status LEDs and primary operator switches are visible through the transparent door viewing panel 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.

**Alarm ACK, Supervisory ACK, Trouble ACK**

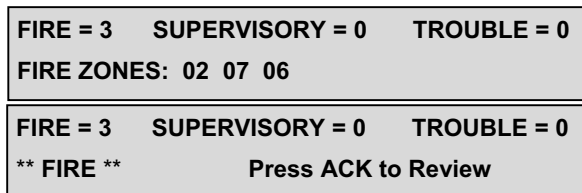
The ALARM ACK, SUPV ACK, or TROUBLE ACK key will silence the local tone-alert, corresponding to the type of abnormal condition. Subsequent entry of the appropriate ACK key will chronologically scroll through the specifics for each abnormal condition. Screen information includes custom labels for each 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.



**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.



**FIGURE 2.** Typical 4005 Displays with Alarm Activity

<b>First Floor East Wing</b>	<b>Room 12</b>	
<b>Smoke Detector</b>	<b>ALARM</b>	<b>1/3</b>

**FIGURE 3.** Typical 4005 Fire Alarm Information Custom Label Display

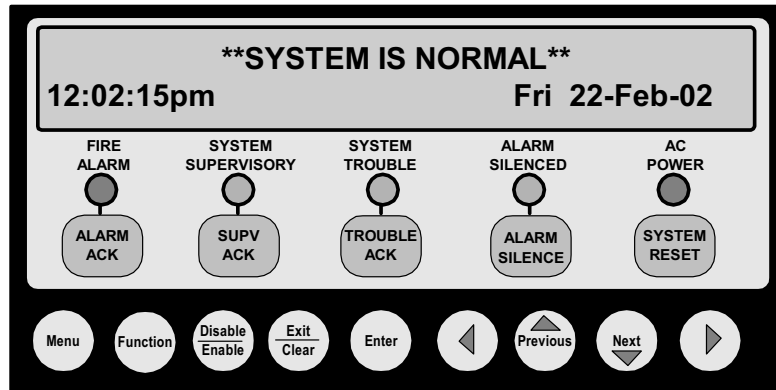
**Alarm Silence**

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.

## 4005 EXPANDED OPERATOR FUNCTIONS AND PROGRAMMING INFORMATION



**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** 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.

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### 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

#### City Circuit Module (4005-9809):

- Single circuit, selectable as local energy, reverse polarity, or form “C” contact

#### City Circuit Module (Continued):

- 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

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### 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, for up to 20 detectors per IDC, 2 mA maximum
- 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, for up to 20 detectors per IDC, 2 mA maximum
- 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

#### 4 Circuit NAC/Relay Module (Continued):

- 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

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### 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

keyswitch 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)

**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 (0.82 mm <sup>2</sup> to 3.31 mm <sup>2</sup> )
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: Power supply output currents listed are entirely available for NAC appliances and auxiliary equipment. 4005 modules are powered from separate circuits.

**Battery Requirements** (refer to document 900-012 for battery selection)

Module	Supv. (mA)	Quantity	Supv. Total	Alarm (mA)	Quantity	Alarm Total
Standard Panel†	Includes 2, 4005-9804 & 1, 4005-9805	Select one		293	Select one	
4005-9150, Electronics Only†	Includes 2, 4005-9824 & 1, 4005-9805			330		
<b>Separate Modules; Standard, Optional, and Expansion; see NOTES ( ) below</b>						
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	=
Internal DACT (aftermarket PID 4005-9810) (6)	30	x	=	30	x	=
† Standard panels and 4005-9150 include IDC loop currents for both supervisory and alarm.	<b>Total, 4005 Modules</b>					
	<b>Total, 4-Wire Detector Power</b>		+			+
	<b>Total, Other Auxiliary Power</b>		+			+
	<b>Total, Notification Appliance Power</b>		+			+
	<b>Total Supervisory Current</b>				<b>Total Alarm Current</b>	

**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		
<b>Standard Control Panels</b>	4005-9101*	Beige cabinet	4005 Fire Alarm Control Panel; includes: 8 standard IDCs, 4 NAC/Relay circuits, 4 A power supply, internal Dual Line DACT, cabinet and door (DACT requires one cable per line, see Accessories on page 8)	
	4005-9102*	Red cabinet		
<b>Electronics Only</b>	4005-9150	4005 Fire Alarm Control Panel, 8 <b>high current</b> IDCs, 4 NAC/Relay Circuits, 4 A power supply, requires 4002 Adapter Kit or separately ordered cabinet and door		
<b>Optional Modules</b>	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**	Single (1) Circuit City Module, chassis mounted, below CPU	Qty, 2 Max.**	
	4005-9810**	Internal Dual Line DACT; aftermarket add-on; 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.	
<b>Expansion Modules</b> (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 circuits		
	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		
<b>Cabinets</b>	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		
<b>Doors</b>	4005-9857	Beige Door		
	4005-9858	Red Door		
<b>Batteries</b> (select one set, refer to chart on page 6)	2081-9272	6.2 Ah Battery, 12 VDC		
	2081-9274	10 Ah Battery, 12 VDC		
	2081-9288	12.7 Ah Battery, 12 VDC		
	2081-9275	18 Ah Battery, 12 VDC		
	2081-9271	33 Ah Battery, 12 VDC	Requires External Battery Cabinet 4009-9802	Two required
	4009-9802	External Battery Cabinet, beige with solid door; includes battery harness; for mounting close-nipped 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)		
<b>4002 Adapter Kits</b> (for mounting 4005-9150 electronics into a Simplex Model 4002 cabinet)	4005-9850	Two Unit,	4002 Cabinet size	Includes 4005 chassis adapter plate with <b>beige</b> retainer panel
	4005-9851	Four Unit		
	4005-9852	Six Unit		
	4005-9853	Two Unit	4002 Cabinet size	Includes 4005 chassis adapter plate with <b>red</b> retainer panel
	4005-9854	Four Unit		
	4005-9855	Six Unit		

\* ULC listed models are designated with a suffix of "C" for English and "CF" for French (example: 4005-9101CF).

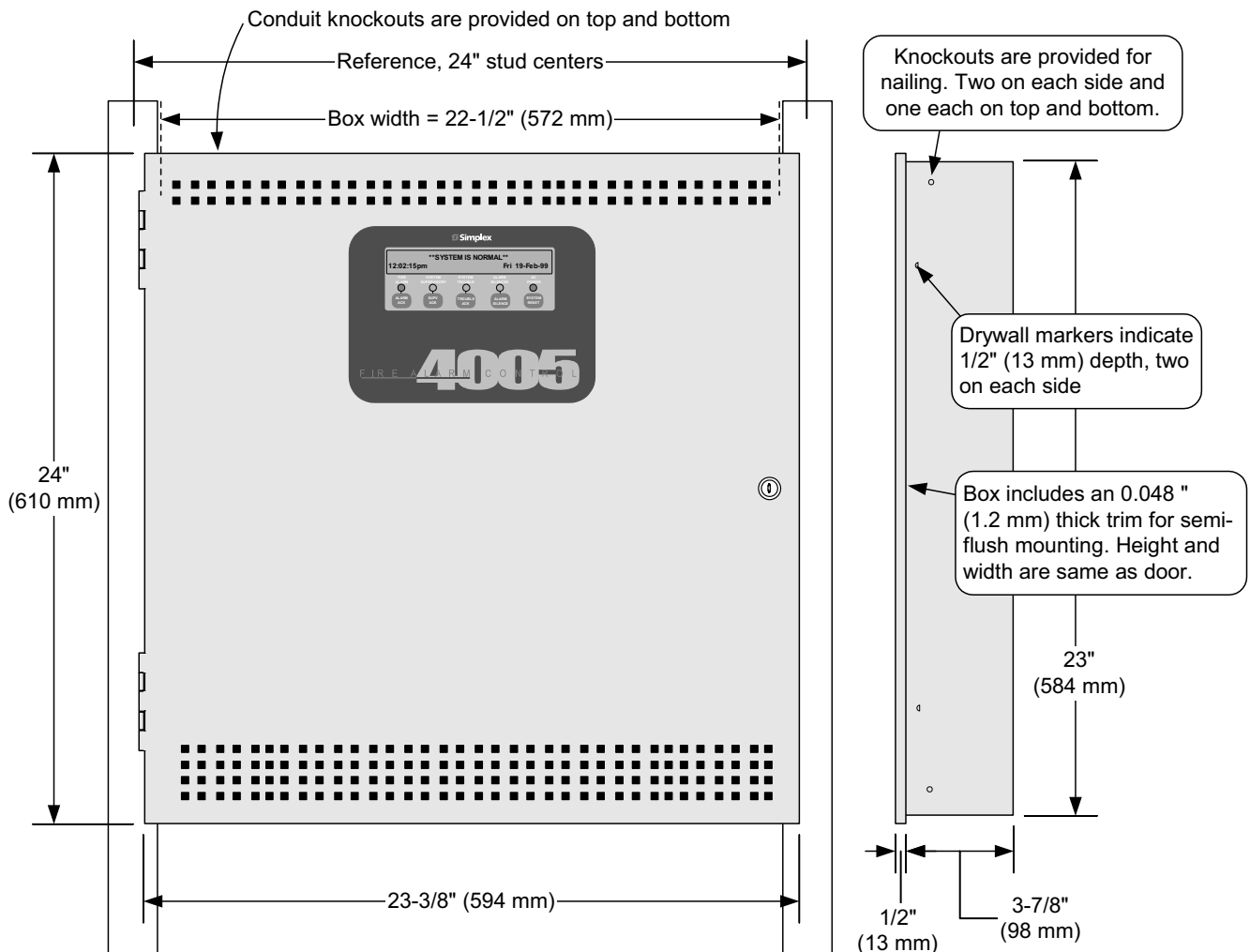
\*\* DACT module is standard equipment on 4005-9101 and 4005-9102. Operation allows for **either** a DACT module **or** one or two City Connection modules. The DACT is programmed using a terminal or a laptop computer in terminal emulation mode. Connection and programming details are provided with the Installation Instructions (publication 574-049).

For further 4005 information, refer to Field Wiring Diagram 841-990 and Installation Instructions 574-068.

## 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)
4001-9810	Four 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
2080-9047	DACT Cable with RJ45 Plug, 14 ft long (4.3 m); <b>required</b> for DACT use

## 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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### Features

#### Control panel operator convenience features:

- Wide viewing angle 2 x 20 (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 upload/download PC access for panel configuration and event history logs
- Software updates are via PC download
- Convenient library of standard custom label terms
- Standard on-board DACT provides: Contact ID, 3/1, 4/2, BFSK, and SIA formats
- WALKTEST™ silent or audible 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 (IDCs):

- 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 2 A
- Selectable for Simplex® SmartSync™ two-wire horn/strobe control or synchronized strobe control†

#### Standard Power Supply:

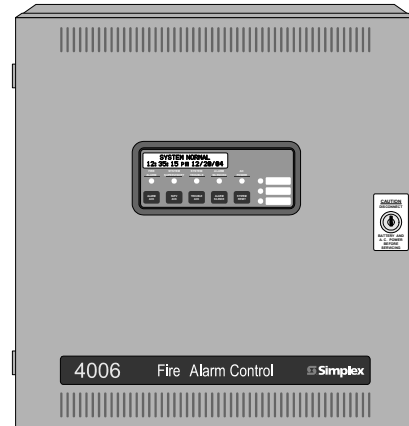
- Provides 3 A maximum @ nominal 24 DC
- Automatic input power selection operates with 120 VAC or 240 VAC, 50 or 60 Hz
- On-board temperature compensated battery charger for up to 12.7 Ah batteries in cabinet (UL and ULC) and up to 25 Ah batteries in separate cabinet (UL only)

#### Additional standard features:

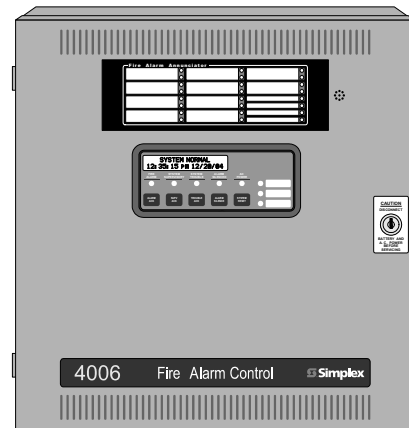
- Two auxiliary relays
- IDCs, NACs, and Relay outputs are power limited per NFPA 72® (AC input, battery circuits, and City Circuit Module outputs are non-power limited)
- UL listed to Standard UL 864, 9th Edition

#### 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



4006-9101 Standard Control Panel



4006-9121 Control Panel with 24 LED Annunciator

#### Available option modules (Continued):

- Expansion IDC module 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 annunciator circuit-specific 20 character custom labels.

\* See page 2 for additional ULC and MEA 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 7165-0026:318 for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. 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 Safety Products Westminster.

\*\* WALKTEST system test is protected under US Patent No. 4,725,818.

† SmartSync horn/strobe operation is protected under U.S. Patent No. 6,281,789. Two-wire synchronization circuit operation is protected by U.S. patent No. 5,559,492.

## Standard Feature Details

**Five Class B IDCs** are each capable of supporting up to 30 Simplex current-limited smoke detectors or electronic heat detectors (see list on page 4) as well as manual stations and other compatible contact closure initiating devices. IDCs are capable of Class A operation with an optional adapter module and can be programmed as Style C (short or open initiates a trouble) for use with current limited devices only.

**Two, 2 A On-Board NACs** provide conventional reverse polarity operation, selectable as Class A or Class B, with electronic control and overcurrent protection. Operation is selectable for synchronized strobe or SmartSync™ horn/strobe two-wire operation. Horn control can be selected at the panel for: Temporal pattern coding, Steady On, Slow March Time (20 beats per minute), or Fast March Time (120 beats per minute). **Note:** When selected for SmartSync horn/strobe control, March Time produces 60 beats per minute.

**The 24 VDC Auxiliary output** provides up to 500 mA for system use. (Auxiliary output current is counted for total power supply capacity.)

**Standard Auxiliary Relay Outputs.** Two relay outputs are available, selectable as normally open or normally closed, rated 2 A @ 30 VDC per below:

**Aux Relay 1** is normally assigned to General Alarm operation but is programmable (see page 7)

**Aux Relay 2 (Trouble)** is energized when Normal and is de-energized with a Trouble condition.

**On-Board Dual Line DACT.** Operation can be selected for Contact ID, SIA, 3/1, 4/2, and BFSK formats. Reporting includes Alarm, Supervisory, Trouble, and AC Failure. Operation includes automatic 24 hour test and programmable power fail report delay.

## Product Selection

### Control Panel

Model	Description	Listings	Box Depth	Standard Features
4006-9101	Standard fire alarm control panel	UL, FM, MEA	4-1/4" (108 mm)	Red cabinet; 5 Class B IDCs, 2 Class B/Class A NACs, 3 A power supply with battery charger; on-board DACT; for input voltage of 120/240 VAC, 50/60 Hz (autoselect)
4006-9121	Fire alarm control panel with 24 LED Annunciator on front door	& CSFM ULC	4-5/8" (117 mm)	

### Option Modules

Model	Description	
4006-9801	Expansion Power Supply; 3 A, with 2 NACs, 120/240 VAC, 50/60 Hz	Select up to one of each as required
4006-9802	Expansion IDC Module; 5 Class B IDCs	
4006-9803	Expansion Relay Module; 10 relays selectable as either N.O. or N. C.	
4006-9804	Class A Adapter Module; converts 5 IDCs from Class B to Class A	Select up to two maximum
4006-9805	City Circuit Module with disconnect switch	Select one if required
4006-9806	City Circuit Module without disconnect switch	

### Accessories

Model	Description
2975-9812	Red semi-flush trim kit; 1-7/16" (37 mm) wide; includes four corners and trim pieces for top, bottom, and sides
4009-9801	Beige External Battery Cabinet for up to 25 Ah batteries; mounts close-nippled to control panel cabinet; dimensions = 16-1/4" W x 13-1/2" H x 5-3/4" D (413 mm x 343 mm x 146 mm) [depth increased for 25 Ah effective 7/2005]

**Batteries, 12 Volt** (select one battery model per system standby requirements; order quantity of two)

Model	Size	Model	Size	Location	Model	Size	Location
2081-9272	6.2 Ah	2081-9288	12.7 Ah	For cabinet mount	2081-9275	18 Ah	Requires 4009-9801 External Battery Cabinet (UL listed only)
2081-9274	10 Ah				2081-9827	25 Ah	

## Standard Feature Details (Continued)

**Power Supply and Battery Charger.** DC power output is 3 A @ 24 VDC for panel use. The temperature compensated battery charger (sealed lead-acid batteries only) is rated for up to 25 Ah batteries per UL 864 and up to 12.7 Ah per ULC-S527. (Up to 12.7 Ah batteries fit in the cabinet, larger batteries require an external cabinet.) Panel electronics can measure and display voltage and current for the power supply, batteries and the battery charger (standard and expansion power supply). Depleted battery trouble is monitored and annunciated and depleted battery cutout can be selected. Active battery status monitor supervises charger operation.

## Optional Feature Details

**Expansion Power Supply.** Provides 3 A total @ 24 VDC, two additional 2 A NACs, and an additional auxiliary power output of 500 mA. Output operation is the same as on the standard power supply.

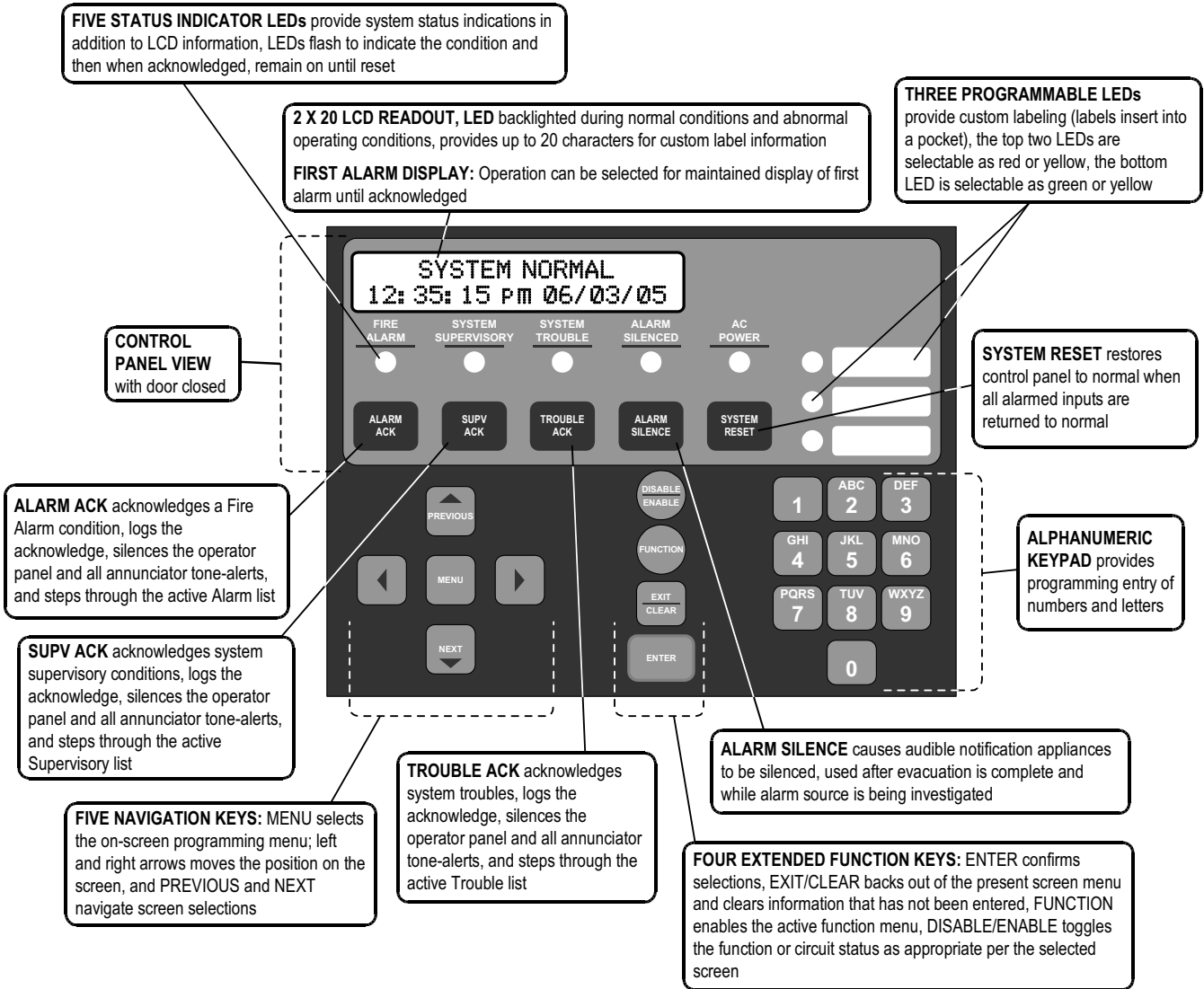
**Expansion IDC Module.** Provides 5 additional Class B IDCs with operation the same as the standard IDCs.

**Expansion Relay Module.** Provides 10 programmable relays, jumper selectable as N.O. or N.C. Contacts are rated 2 A @ 30 VDC. Typical application is to track status of each IDC. See page 7 for relay program options.

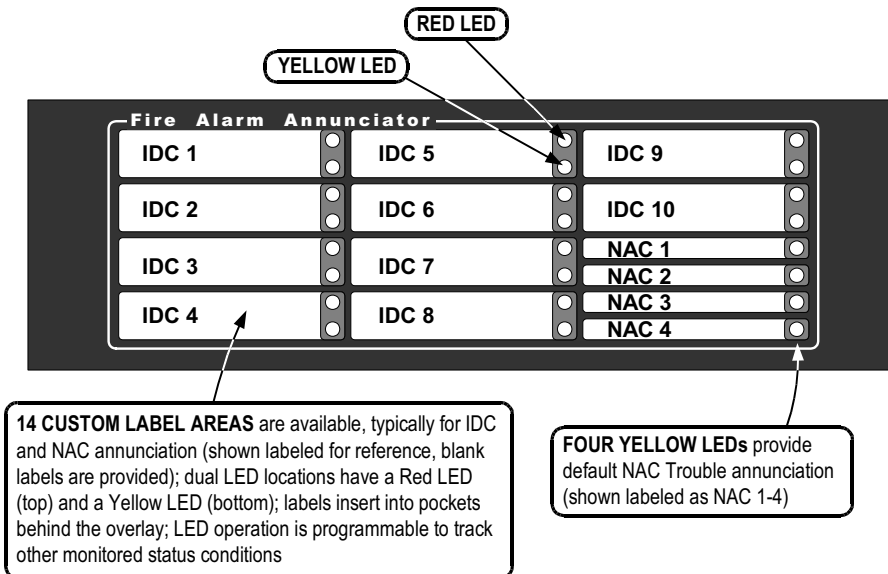
**Class A Adapter Module.** Converts 5 IDCs from Class B to Class A operation. Two modules can be mounted for use with the Expansion IDC Module.

**City Circuit Modules.** These modules are available with or without on-board disconnect switches, depending on local requirements (either type can be disconnected through the front panel under password control). Connections are for Remote Station (reverse polarity) or Municipal Master (local energy). Reporting includes Alarm, Supervisory, and Trouble.

## Keyboard Reference



## Door LED Annunciator Details



## Specifications (Refer to Installation Instructions 579-704 for additional information)

Power Ratings		
AC Input Ratings	Input Voltage	120 VAC, 60 Hz; 220/230/240 VAC, 50/60 Hz, auto-select
	Input Current, Standard	2 A maximum @ 120 VAC input; 1.5 A maximum @ 240 VAC input
	Input Current with Expansion Power Supply	4 A maximum @ 120 VAC input; 3 A maximum @ 240 VAC input
Power Supply Output Rating		3 A maximum @ 24 VDC in alarm (see NAC details on page 6)
Battery Charger		Temperature compensated charger is rated for up to 25 Ah per UL 864; up to 12.7 Ah per ULC-S527
Standby Current		130 mA; with 5 IDCs fully loaded, tone-alert silenced, trouble LED on
Standard Circuit Ratings (NOTE: Total DC current = 3 A maximum)		
Notification Appliance Circuits (NACs) NOTE: See details on page 6		2 A maximum @ 24 VDC, per circuit; available as Class A or Class B; Class B end-of-line resistor = 10 k $\Omega$ , 1/2 W; Model 4081-9008 (P/N 733-894)
Initiating Device Circuits (IDCs)	Supervisory Current	3 mA maximum
	Alarm Current	60 mA maximum
	Capacity	Each IDC supports up to 30 detectors (smoke or electronic heat) and manual stations as required; wiring distance is limited to 50 $\Omega$ maximum
	End-of-Line Resistor	3.3 k $\Omega$ , 1/2 W; Model 4081-9002 (P/N 733-893) for Class B IDCs
Annunciator Communications	Quantity Supported	Up to four annunciator modules per panel (see page 5 for details)
	Wiring Type	Twisted pair, or twisted, shielded pair; 18 AWG (0.82 mm <sup>2</sup> )
	Bus-Style Wiring	Up to 4000 ft (1219 m); 0.58 $\mu$ F (580 nF) maximum capacitance; 35 $\Omega$ max.
	"T-Tap" Wiring	Up to 10,000 ft (3048 m) total wiring; up to 2500 ft (762 m) to farthest device
	Line Matching Resistor	Bus-style, connect one at panel 100 $\Omega$ , 1/2 W; 4081-9011; T-Tap, connect one at panel and one at end of line (part number 733-974)
	Suppression	Use 2081-9044 Overvoltage Protectors where wiring leaves and enters a building (refer to data sheet S2081-0016)
Auxiliary Power Output		500 mA maximum @ 24 VDC
Standard Auxiliary Relay Outputs	Relay 1	Programmable operation
	Relay 2	Trouble operation
Contacts rated 2 A @ 30 VDC, 0.35 power factor; jumper selectable as N.O. or N.C.		
Wiring Connections for Above Circuits and AC Input		Terminals rated for 18 AWG to 12 AWG (0.82 mm <sup>2</sup> to 3.31 mm <sup>2</sup> )
Option Module Ratings		
Class A IDC Adapter Module		Five circuits per module, rated same as circuits
Ten Relay Auxiliary Module 4006-9803	Contact Ratings	2 A @ 30 VDC, 0.35 power factor; jumper selectable as N.O. or N.C.
	Wiring	Terminals rated for 18 AWG to 12 AWG (0.82 mm <sup>2</sup> to 3.31 mm <sup>2</sup> )
Environmental Ratings		
Operating Temperature Range		32° to 120°F (0° to 49° C)
Operating Humidity Range		Up to 93% RH, non-condensing @ 100.4° F (38° C) maximum

## Reference Information, Compatible Simplex Peripherals

### Compatible Simplex Detectors

Model	Type	Description	Data Sheet
4098-9601	Photoelectric smoke detectors for 2-wire and 4-wire bases	Standard detector (2.8% nominal)	S4098-0015
4098-9605		Reduced sensitivity detector (3.5% nominal)	
4098-9602		Combination smoke and heat detector	S4098-0017
4098 Series	Duct detector housings	2-wire and 4-wire models	S4098-0029
4098 Series	Ionization Smoke Detectors	2-wire and 4-wire models	S4098-0018
4098-9612	Electronic heat detectors for 2-wire and 4-wire bases	135° F (57° C)	Fixed temperature heat detector
4098-9614		200° F (93° C)	
4098-9613		135° F (57° C)	Fixed temperature heat detector with rate-of-rise detection
4098-9615		200° F (93° C)	

### Compatible System Expansion Panels

Model	Type	Description	Data Sheet
4003 Series	Voice Control Panel	Provides a remote voice control panel with on-board NACs, internal microphone, and remote microphone input	S4003-0001
4009 Series	Remote NAC Extender	Provides remote NACs; includes power supply and battery charger; 4 extenders max/NAC; <b>4006 uses NAC output to provide control</b>	S4009-0002

Note: Contact your local Simplex Product Supplier for additional compatible peripherals.

## Supervisory and Alarm Currents

Model	Module	Supervisory	Alarm
4006-9101	Standard fire alarm control panel	130 mA	160 mA + 60 mA per IDC in Alarm
4006-9121	Control panel with 24 LED Annunciator	148 mA	210 mA + 60 mA per IDC in Alarm
4006-9801	Expansion Power Supply	50 mA	60 mA
4006-9802	Expansion IDC Module	50 mA	50 mA + 60 mA per IDC in Alarm
4006-9803	Expansion Relay Module	0 mA + 10 mA per energized relay	0 mA + 10 mA per energized relay
4006-9804	Five Circuit IDC Class A Adapter	0 mA normal; 10 mA per IDC in trouble	0 mA normal; 10 mA per IDC in trouble
4006-9805	City Circuit Module with disconnect switch	30 mA	60 mA
4006-9806	City Circuit Module without disconnect switch	30 mA	60 mA
4606-9101	Remote LCD Annunciator (see data sheet S4606-0001)	100 mA	150 mA
4610-9111	Remote LED/Switch Annunciator (see data sheet S4610-0001)	40 mA	70 mA (all LEDs and tone-alert on)

### \*\* Current Calculation Information:

- To determine total supervisory current, add currents of modules in panel to base system value **and** all auxiliary loads.
- To determine total alarm current, add currents of modules in panel to base system alarm current **and** add all panel NAC loads **and** all auxiliary loads.

## Remote Annunciator Options

The 4006 supports up to four annunciator options including:

- Door Mounted 24 LED Annunciator
- 4610-9111 Remote LED/Switch Annunciators
- 4606-9101 Remote LCD Annunciators

Annunciators communicate at a rate of 9600 baud with 24 VDC power supplied by separate wiring.

### 4610-9111 LED Annunciator Features:

- 16 LEDs with programmable functions and dedicated LEDs for Alarm Silenced, Lost Communications, Trouble, and Power-on
- Keyswitch access controlled switches for Acknowledge, Alarm Silence, Reset, and Lamp Test
- Local tone-alert

### 4606-9101 LCD Annunciator Features:

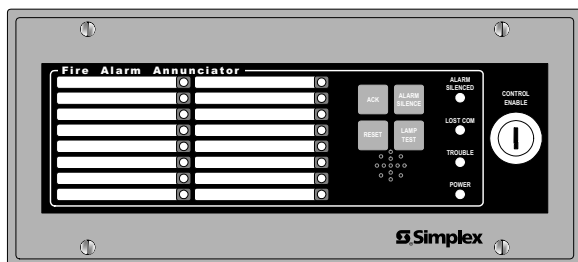
- LCD readout with two lines of 40 characters each and LED backlighting
- Wide viewing angle, super-twist design
- Keyswitch access controlled

### Control switches and status LEDs for:

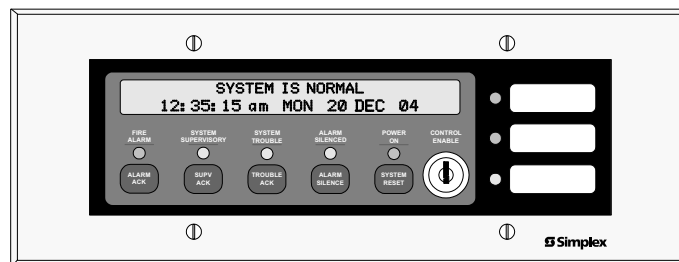
- Alarm, supervisory, or trouble acknowledge
- Alarm silence and System Reset

### Three programmable LED indicators:

- Two LEDs are selectable as red or yellow
- One LED is selectable as green or yellow
- With provisions for custom labeling



4610-9111 LED/Switch Annunciator



4606-9101 LCD Annunciator

## IDC Operation Modes

The following IDC operation modes are selectable from either the front panel or the PC programmer

Function Type	Description	Device State	IDC Status
FIRE	Fire monitor zone	Normal = Current Limited = Short = Open =	NORMAL FIRE FIRE TROUBLE
WATER	Waterflow monitor zone	Normal = Current Limited = Short = Open =	NORMAL FIRE FIRE TROUBLE
HEAT	Heat detector zone		
DUCT	Duct detector zone		
PULL	Manual (pull) station zone		
SMOKE	Smoke detector zone		
SO	Sprinkler Supervisory	Normal = Current Limited = Short = Open =	NORMAL SUPERVISORY SUPERVISORY TROUBLE
WSO	Combination waterflow and water supervisory zone	Normal = Current Limited = Short = Open =	NORMAL SUPERVISORY ALARM TROUBLE
SUPV	Supervisory monitor	Normal = Current Limited = Short = Open =	NORMAL SUPERVISORY SUPERVISORY TROUBLE
UTIL	Supervised utility monitor	Normal = Current Limited = Short = Open =	OFF ON ON TROUBLE
TROUBLE	Trouble monitor	Normal = Current Limited = Short = Open =	NORMAL TROUBLE TROUBLE TROUBLE
VSMOKE	Verified fire alarm; the abnormal (current limited) state causes the alarm verification cycle to start; a short is an immediate alarm	Normal = Current Limited = Short = Open =	NORMAL VERIFY FIRE TROUBLE
STYLEC	Style C fire monitor	Normal = Current Limited = Short = Open =	NORMAL FIRE TROUBLE TROUBLE
LATSUPV	Latching supervisory monitor (supervisory latches until system is reset)	Normal = Current Limited = Short = Open =	NORMAL SUPERVISORY SUPERVISORY TROUBLE

## Detailed NAC Ratings

NAC Ratings, Maximum per NAC	Appliances												
<p><b>Special Application: 2 A;</b> strobe synchronization is UL listed across all 4 system NACs for these 4906 Series appliances</p>	<p>Simplex 4901 Series (horns) and the following 4906 Series Multi-Candela: strobes, horn/strobes, and speaker/strobes (see data sheets S4906-0001, S4906-0002, &amp; S4906-0003 )</p> <table border="1"> <tr> <td>4906-9101</td> <td>4906-9103</td> <td>4906-9127</td> <td>4906-9129</td> <td>4906-9151</td> <td>4906-9154</td> </tr> <tr> <td>4906-9102</td> <td>4906-9104</td> <td>4906-9128</td> <td>4906-9130</td> <td>4906-9153</td> <td></td> </tr> </table>	4906-9101	4906-9103	4906-9127	4906-9129	4906-9151	4906-9154	4906-9102	4906-9104	4906-9128	4906-9130	4906-9153	
4906-9101	4906-9103	4906-9127	4906-9129	4906-9151	4906-9154								
4906-9102	4906-9104	4906-9128	4906-9130	4906-9153									
<p><b>Regulated 24 VDC: 1.5 A</b> <b>NOTE:</b> Maximum <u>strobe</u> load on main power supply or expansion power supply is <b>1.35 A</b> per power supply (2.7 A total); remainder of power supply rating is available for other loading</p>	<p>All other UL Listed Notification Appliances; use associated external synchronization modules where required</p>												

## Relay Operation Modes

The following relay operations are selectable from either the front panel or the PC programmer.

### Common Fire Alarm Operations

Function Type	Relay Activates Upon	Relay Deactivates Upon
SRELAY	General Alarm	Silence
RRELAY	General Alarm	Reset
SUPV	Supervisory condition	Clear
TRBL	Trouble condition	Acknowledged

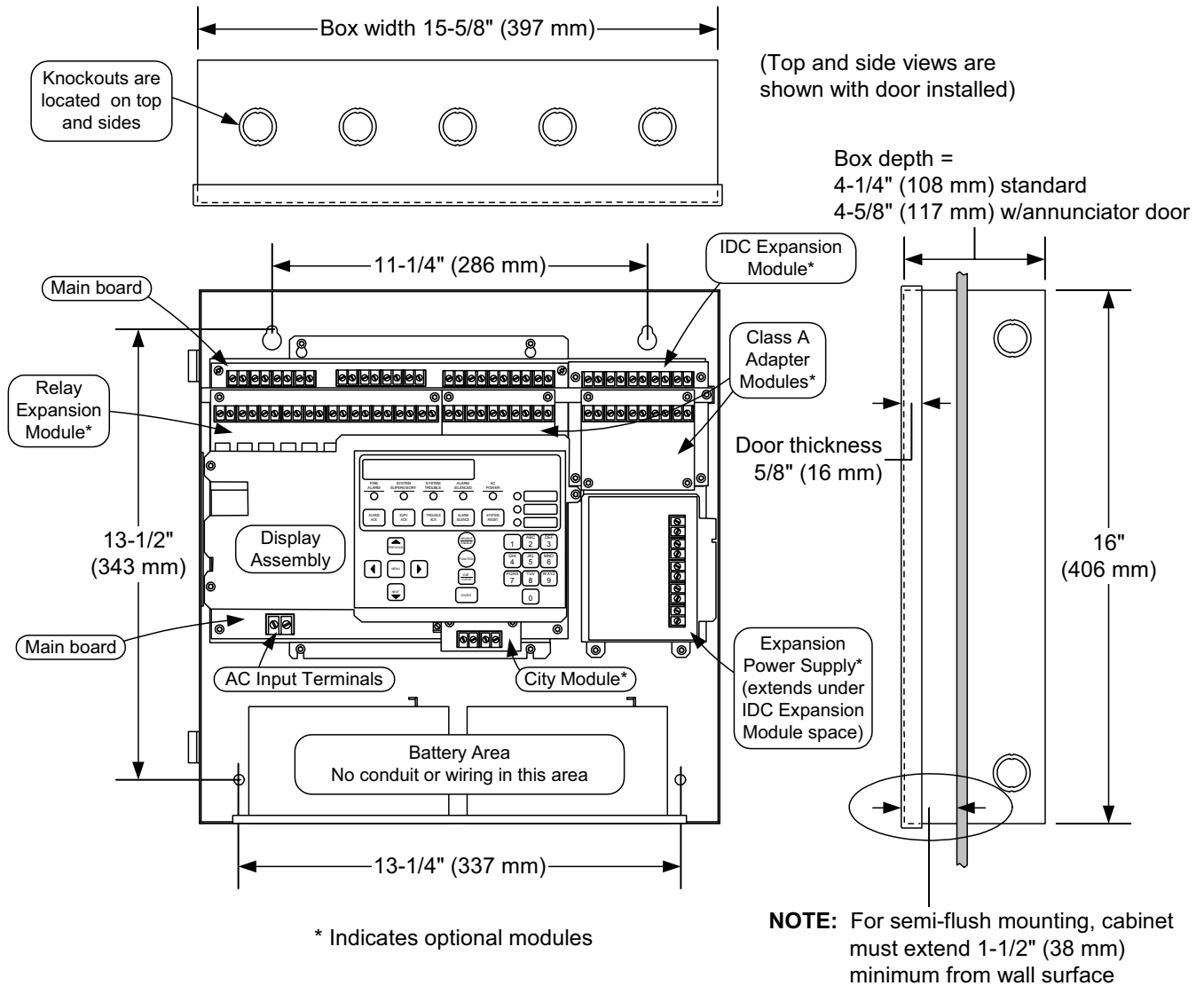
### Special Functions

Function Type	Description
UTILITY	Utility IDC in the same alarm group activates
PRIMARY	General alarm; relay is tied to Primary Elevator Recall contacts
ALTERN	General alarm; relay is tied to Alternate Elevator Recall contacts
DRESET	Relay provides 24 VDC power to 4-wire detectors; relay turns off for 5 seconds on System Reset
DHOLDER	Relay provides 24 VDC to larger door holder relay with separate power source; relay activates on general alarm to remove power to door holder relay and close doors

## Additional Programming Feature Details

Function	Details																																																						
Custom labels	Up to 20 characters per point; a built-in message library provides for commonly used words for easy front panel programming																																																						
Message Library	<p>For front panel label creation convenience, the following words can be selected as part of a custom label ( _ designates a built-in space; typing the first letter of a word/number will select the closest word in alphabetical/numerical sequence)</p> <table border="1"> <tbody> <tr> <td>North</td> <td>Center</td> <td>Fir_3</td> <td>Basement</td> <td>Lobby</td> <td>main</td> <td>Boiler_RM</td> <td>Elevator</td> <td>Storeroom</td> </tr> <tr> <td>South</td> <td>rear</td> <td>Fir_4</td> <td>Floor</td> <td>Office</td> <td>first</td> <td>Classroom</td> <td>Entrance</td> <td>Wing</td> </tr> <tr> <td>East</td> <td>5th</td> <td>Fir_5</td> <td>Garage</td> <td>Patient</td> <td>2nd</td> <td>Closet_</td> <td>Restroom</td> <td>Zone</td> </tr> <tr> <td>West</td> <td>Fir_1</td> <td>RM_</td> <td>Hallway</td> <td>upper</td> <td>3rd</td> <td>Corridor</td> <td>Room</td> <td></td> </tr> <tr> <td>Front</td> <td>Fir_2</td> <td></td> <td>HVAC_Room</td> <td>lower</td> <td>4th</td> <td>Elect_RM</td> <td>Stairway</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Kitchen</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	North	Center	Fir_3	Basement	Lobby	main	Boiler_RM	Elevator	Storeroom	South	rear	Fir_4	Floor	Office	first	Classroom	Entrance	Wing	East	5th	Fir_5	Garage	Patient	2nd	Closet_	Restroom	Zone	West	Fir_1	RM_	Hallway	upper	3rd	Corridor	Room		Front	Fir_2		HVAC_Room	lower	4th	Elect_RM	Stairway					Kitchen					
North	Center	Fir_3	Basement	Lobby	main	Boiler_RM	Elevator	Storeroom																																															
South	rear	Fir_4	Floor	Office	first	Classroom	Entrance	Wing																																															
East	5th	Fir_5	Garage	Patient	2nd	Closet_	Restroom	Zone																																															
West	Fir_1	RM_	Hallway	upper	3rd	Corridor	Room																																																
Front	Fir_2		HVAC_Room	lower	4th	Elect_RM	Stairway																																																
			Kitchen																																																				
History logs	Three separate logs: Alarm (100 entries), Supervisory (100 entries), and Trouble (300 entries); logs can be queried separately, or as a combined log; logs can be downloaded for printing or archiving using the RS-232 service port																																																						
Autoprogram	Automatically scans system for installed option modules and configures panel programming accordingly; modes are available to detect new modules only, recreate default programming and then add all modules found																																																						
Alarm Groups	Up to 99 alarm groups are available, any point may be in up to 3 alarm groups; this allows NAC and relay operation to be associated with IDC inputs according to local response requirements																																																						
WALKTEST	Allows one person to perform system testing; alarm or trouble tests are followed by automatic reset; the alarm zone is sounded out by associated audible notification or the response is silently logged into the Alarm log																																																						
Manual Control	Allows selection of individual relays or NACs for system testing																																																						
Passcode Protection (4-digit number)	Level 1 = Acknowledge, Silence, System Reset, View logs, View point information, and Lamp Test Level 2 = All Level 1 + Set Time/Date, Point Control, Enable/Disable points Level 3 = All Level 2 + Clear logs, Clear verification tallies, Custom label editing, and WALKTEST Level 4 = All Level 3 + Programming, Upload/Download; this is the Service access level																																																						

# Installation and Module Placement Reference



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