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

Addressable Devices:
- Using IDNet communications, up to 200 addressable TrueAlarm detection points or addressable device points are available (see page 3 for details)

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

Available option modules:
- Door mounted 24 LED annunciator (standard on ULC models)
- 3 A Expansion Power Supply with two on-board 2 A NACs that operate the same as standard NACs
- City Interface Module and Auxiliary Relay Module
- Remote LCD and LED/Switch Annunciators

Description

For areas requiring up to 200 addressable input devices and up to 4 NACs, the Simplex 4008 Series fire alarm control panels provide flexible initiating circuit monitoring, extensive programmable control capability, and LCD annunciated 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 Fire Protection Products.
**Standard Feature Details**

**Addressable operation** is provided by an IDNet signaling line circuit (SLC) capable of communicating to up to 200 addressable devices (points). Addressable devices include: TrueAlarm smoke detection, heat detection, and duct detection; supervised addressable modules for single and multiple contact monitoring, manual stations, isolation modules, and a remote signal module (see list on page 4.)  (Please note that this panel provides a limited TrueAlarm operation feature set. For larger applications that require the full complement of TrueAlarm features, contact your local Simplex product supplier.)

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 of 20 beats per minute (BPM), or Fast March Time of 120 BPM. **Note:** When selected for SmartSync horn/strobe control, March Time produces 60 BPM.

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.

**Product Selection**

### Control Panel

<table>
<thead>
<tr>
<th>Model</th>
<th>Color</th>
<th>Description</th>
<th>Listings</th>
<th>Standard Feature Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>4008-9102</td>
<td>Beige</td>
<td>Standard fire alarm control panel</td>
<td>MEA</td>
<td>SLC with 200 addressable points, 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)</td>
</tr>
<tr>
<td>4008-9101</td>
<td>Red</td>
<td>Fire alarm control panel with 24 LED Annunciator on front door</td>
<td>UL, FM, &amp; CSFM</td>
<td></td>
</tr>
<tr>
<td>4008-9122</td>
<td>Beige</td>
<td>Fire alarm control panel with 24 LED Annunciator on front door</td>
<td>MEA</td>
<td>SLC with 200 addressable points, 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)</td>
</tr>
<tr>
<td>4008-9121</td>
<td>Red</td>
<td>Fire alarm control panel with 24 LED Annunciator on front door</td>
<td>UL, FM, &amp; CSFM</td>
<td></td>
</tr>
</tbody>
</table>

### Option Modules

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Listings</th>
<th>Standard Feature Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>4008-9801</td>
<td>Expansion Power Supply; 3 A, with 2 NACs, 120/240 VAC, 50/60 Hz</td>
<td>Select one if required</td>
<td></td>
</tr>
<tr>
<td>4008-9802</td>
<td>Expansion Relay Module; 3 relays selectable as either N.O. or N.C.</td>
<td>Select one if required</td>
<td></td>
</tr>
<tr>
<td>4006-9805*</td>
<td>City Circuit Modules with disconnect switch</td>
<td>UL, FM, &amp; CSFM</td>
<td></td>
</tr>
<tr>
<td>4006-9806*</td>
<td>City Circuit Modules without disconnect switch</td>
<td>UL, FM, &amp; CSFM</td>
<td></td>
</tr>
</tbody>
</table>

* These City Circuit modules are also used on the 4006 Series control panels.

### Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2975-9811</td>
<td>Beige semi-flush trim kit; 1 7/8&quot; (37 mm) wide; includes four corners and trim pieces for top, bottom, and sides</td>
</tr>
<tr>
<td>2975-9812</td>
<td>Red semi-flush trim kit; 1 7/8&quot; (37 mm) wide; includes four corners and trim pieces for top, bottom, and sides</td>
</tr>
<tr>
<td>4009-9801</td>
<td>Beige External Battery Cabinet for up to 25 Ah batteries; mounts close-nippled to control panel cabinet; dimensions = 16 ¾ W x 13 ½ H x 5 ¾ D (413 mm x 343 mm x 146 mm)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Model</th>
<th>Size</th>
<th>Location</th>
<th>Model</th>
<th>Size</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2081-9272</td>
<td>6.2 Ah</td>
<td>2081-9288</td>
<td>12.7 Ah</td>
<td>For cabinet mount</td>
<td>2081-9275</td>
<td>18 Ah</td>
<td>Requires 4009-9801 External Battery Cabinet (UL listed only)</td>
</tr>
<tr>
<td>2081-9274</td>
<td>10 Ah</td>
<td>2081-9287</td>
<td>25 Ah</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

**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 Relay Module.** Provides three relays, one each for Alarm, Supervisory, and Trouble conditions. Each is jumper selectable as N.O. or N.C. Contacts are rated 2 A @ 30 VDC. Location is the same as for the City Circuit Modules.

**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.
**TrueAlarm Smoke Detection**

**TrueAlarm Addressable Detection.** IDNet addressable device compatibility includes Simplex TrueAlarm photoelectric smoke and temperature sensors. The 4008 fire alarm control panel provides a subset of the complete analog TrueAlarm features. TrueAlarm sensors appear to the panel essentially as addressable detectors and that term is used for 4008 documentation.

Approximately every four seconds the addressable smoke detectors transmit an output value based on their smoke chamber condition. The panel CPU internally maintains a current value, peak value, and an average value for each detector’s output. Status is determined by comparing the current value to its average value. Tracking this average value as a continuously shifting reference point filters out environmental factors that cause shifts in sensitivity.

**Alarm Determination.** Photoelectric detection sensitivity is 2.5%/ft obscuration. All detectors can be selected for a reduced sensitivity detection mode that satisfies the city of Boston requirements. Addressable heat detectors provide a fixed temperature alarm at 135° F (57° C) and may be individually selected to also provide rate-of-rise alarm of 15° F (8.3° C) per minute where applicable.

**Keyboard Reference**

- **Five Status Indicator LEDs** provide system status indications in addition to LCD information, LEDs flash to indicate the condition and then when acknowledged, remain on until reset.
- **2 x 20 LCD Readout, LED** backlit during normal conditions and abnormal operating conditions, provides up to 20 characters for custom label information.
- **First Alarm Display:** Operation can be selected for maintained display of first alarm until acknowledged.
- **Alarm Acknowledgment.** Acknowledges a Fire Alarm condition, logs the acknowledge, silences the operator panel and all annunciator tone-alerts, and steps through the active Alarm list.
- **Supervisory Acknowledgment.** Acknowledges system supervisory conditions, logs the acknowledge, silences the operator panel and all annunciator tone-alerts, and steps through the active Supervisory list.
- **Trouble Acknowledgment.** Acknowledges system troubles, logs the acknowledge, silences the operator panel and all annunciator tone-alerts, and steps through the active Trouble list.
- **Five Navigation Keys:** Menu selects the on-screen programming menu; left and right arrows moves the position on the screen, and Previous and Next navigate screen selections.
- **Three Programmable LEDs** provide custom labeling (labels insert into a pocket), the top two LEDs are selectable as red or yellow, the bottom LED is selectable as green or yellow.
- **System Reset** restores control panel to normal when all alarmed inputs are returned to normal.
- **Alphanumeric Keypad** provides programming entry of numbers and letters.
- **Alarm Silence** causes audible notification appliances to be silenced, used after evacuation is complete and while alarm source is being investigated.
- **Four Extended Function Keys:** Enter confirms selections, Exit/Clear backs out of the present screen menu and clears information that has not been entered, Function enables the active function menu, Disable/Enable toggles the function or circuit status as appropriate per the selected screen.

**Diagnostics and Default Device Type**

**Status Monitoring.** 4008 TrueAlarm operation provides the ability to automatically indicate when an addressable detector is dirty or excessively dirty. The NFPA 72 (National Fire Alarm and Signaling Code) requirement for a test of the sensitivity range of the detectors is fulfilled by the TrueAlarm ability to maintain the sensitivity level of each addressable detector.

**Modular Addressable Detector/Base Combination.** Modular TrueAlarm addressable detectors use the same base which allows different detector head types (photoelectric smoke, or heat) to be easily interchanged to meet specific application requirements. This feature also allows intentional detector (sensor head) substitution during building construction. When conditions are temporarily dusty, instead of covering the smoke detectors (causing them to be disabled), heat detector heads may be installed without reprogramming the control panel. Although the control panel will indicate an incorrect detector type, the heat detector will operate at a default setting to provide heat detection for building protection at that location.
The 4008 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 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
### Specifications (Refer to Installation Instructions 579-716 for additional information)

<table>
<thead>
<tr>
<th><strong>AC Input</strong></th>
<th><strong>Input Voltage</strong></th>
<th>120 VAC, 60 Hz; 220/230/240 VAC, 50/60 Hz, auto-select</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Current, Standard</td>
<td>2 A maximum @ 120 VAC input; 1.5 A maximum @ 240 VAC input</td>
<td></td>
</tr>
<tr>
<td>Input Current with Expansion Power Supply</td>
<td>4 A maximum @ 120 VAC input; 3 A maximum @ 240 VAC input</td>
<td></td>
</tr>
<tr>
<td><strong>Power Supply Output</strong></td>
<td>3 A maximum @ 24 VDC in alarm</td>
<td></td>
</tr>
<tr>
<td><strong>Battery Charger</strong></td>
<td>Temperature compensated charger is rated for up to 25 Ah per UL 864; up to 12.7 Ah per ULC-S527</td>
<td></td>
</tr>
</tbody>
</table>

#### Notification Appliance Circuits (NACs) (NOTE: Total DC current = 3 A maximum per power supply)

- **General Rating**
  - 2 A maximum @ 24 VDC, per NAC; available as Class A or Class B; Class B end-of-line resistor = 10 kΩ, ½ W; Model 4081-9008 (P/N 733-894)

- **Special Application Rating = 2 A per NAC**
  - Strobe synchronization is UL listed across all four system NACs for these 4906 Series appliances

- **Regulated 24 VDC Rating = 1.5 A per NAC**
  - NOTE: Maximum strobe load on main power supply or expansion power supply is 1.35 A per power supply (2.7 A total); remainder of power supply rating is available for other loading
  - Power for other UL listed appliances; use associated external synchronization modules where required

#### Standard Circuit Ratings (NOTE: Total DC current = 3 A maximum per power supply)

- **Auxiliary Power Output**
  - 500 mA maximum @ 24 VDC

- **Standard Auxiliary Relay Outputs**
  - Relay 1: Programmable operation Contacts rated 2 A @ 30 VDC, 0.35 power factor; jumper selectable as N.O. or N.C.
  - Relay 2: Trouble operation

- **Wiring Connections**
  - Terminals rated for 18 AWG to 12 AWG (0.82 mm² to 3.31 mm² )

#### IDNet Communications

- **Quantity**
  - Up to 200 addressable devices (see list on page 4)

- **Suppression**
  - For wiring external to building, use Overvoltage Protector 2081-9044 at each end of the connection; refer to data sheet S2081-0016 for details

- **Wire Size**
  - 18 AWG (0.82 mm²)

- **Wire Types**
  - Unshielded twisted pair (UTP): Acceptable for most applications; not for use with wiring in conduit with either NAC or AC power wiring (or similar)
  - Shielded twisted pair (STP): Shielded wire may provide protection from unexpected sources of interference and may be required for some applications; review system with your local Simplex product supplier

- **Distance from Control Panel to Farthest Device**
  - Up to 4000 feet (1219 m) with 125 devices; 32 Ω
  - Up to 2500 feet (762 m) with 200 devices; 51 Ω

- **Total Wire Length Allowed With “T” Taps for Class B Wiring**
  - Up to 10,000 ft (3 km)

- **Total Capacitance Allowed**
  - 0.6 µF (600 nF)

#### Annunciator Communications

- **Quantity Supported**
  - Up to four annunciator modules per panel (see page 4 for details)

- **Wiring Size and Type**
  - See description for IDNet wiring above

- **Wiring Distances**
  - Bus-Style Wiring: Up to 4000 ft (1219 m); 0.58 µF (580 nF) maximum capacitance; 35 Ω 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 Wiring: Connect one at panel and one at end of line 100 Ω, ½ W; 4081-9011; (part number 733-974)
  - “T-Tap” Wiring: Connect one at panel and one at farthest device

- **Suppression**
  - Use 2081-9044 Overvoltage Protectors where wiring leaves and enters a building (refer to data sheet S2081-0016)

#### Option Module Ratings

- **Expansion Relay Module 4008-9802**
  - **Contact Ratings**
    - 2 A @ 30 VDC, 0.35 power factor; jumper selectable as N.O. or N.C.

#### Environmental Ratings

- **Operating Temperature Range**
  - 32°F to 120°F (0°C to 49°C)

- **Operating Humidity Range**
  - Up to 93% RH, non-condensing @ 100.4°F (38°C) maximum
**Supervisory and Alarm Currents**

<table>
<thead>
<tr>
<th>Model</th>
<th>Module</th>
<th>Supervisory Current</th>
<th>Alarm Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>4008-9101</td>
<td>Standard fire alarm control panel</td>
<td>135 mA + 0.8 mA per IDNet device</td>
<td>190 mA + 1 mA per IDNet device</td>
</tr>
<tr>
<td>4008-9102</td>
<td>Control panel with 24 LED Annunciator</td>
<td>153 mA + 0.8 mA per IDNet device</td>
<td>240 mA + 1 mA per IDNet device</td>
</tr>
<tr>
<td>4008-9801</td>
<td>Expansion Power Supply</td>
<td>50 mA</td>
<td>60 mA</td>
</tr>
<tr>
<td>4008-9802</td>
<td>City Circuit Module with disconnect switch</td>
<td>10 mA per energized relay</td>
<td>10 mA per energized relay</td>
</tr>
<tr>
<td>4006-9805</td>
<td>City Circuit Module without disconnect switch</td>
<td>30 mA</td>
<td>60 mA</td>
</tr>
<tr>
<td>4006-9806</td>
<td>Remote LCD Annunciator (see data sheet S4606-0001)</td>
<td>65 mA</td>
<td>140 mA</td>
</tr>
<tr>
<td>4610-9111</td>
<td>Remote LED/Switch Annunciator (see data sheet S4610-0001)</td>
<td>40 mA (all LEDs and tone-alert on)</td>
<td>70 mA</td>
</tr>
</tbody>
</table>

**Current Calculation Information:**

1. To determine total supervisory current, add currents of modules in panel to base system value and all auxiliary loads.
2. 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.

**Addressable Device Information**

The following addressable device types and hardware point types are provided. A combination of autoprogram, and either front panel or PC programming allows the operation to be selected per application.

**Available Fire Detection Device Types**

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photoelectric Addressable Detector</td>
<td>TrueAlarm operation with sensitivity = 2.5%/ft</td>
<td>Sounder base (selectable for single station operation)</td>
</tr>
<tr>
<td>Heat Detector</td>
<td>Fixed temperature thermal detection at 135° F (57.2° C)</td>
<td>Sounder base (selectable for single station operation)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>With relay output</td>
</tr>
<tr>
<td>Photoelectric Detector</td>
<td>Combination detector, dual address base with options available per above</td>
<td></td>
</tr>
</tbody>
</table>

**Addressable Hardware Point Types**

<table>
<thead>
<tr>
<th>Function Type</th>
<th>Description</th>
<th>Function Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE</td>
<td>Fire monitor device</td>
<td>WSO</td>
<td>Combination workflow and water supervisory device</td>
</tr>
<tr>
<td>WATER</td>
<td>Waterflow monitor device</td>
<td>SUPV</td>
<td>Supervisory monitor</td>
</tr>
<tr>
<td>HEAT</td>
<td>Heat detector device</td>
<td>UTIL</td>
<td>Supervised utility monitor</td>
</tr>
<tr>
<td>DUCT</td>
<td>Duct detector device</td>
<td>TROUBLE</td>
<td>Trouble monitor</td>
</tr>
<tr>
<td>PULL</td>
<td>Manual (pull) station</td>
<td>VSMOKE</td>
<td>Verified fire alarm; an alarm level causes the alarm verification cycle to start</td>
</tr>
<tr>
<td>SMOKE</td>
<td>Smoke detector device</td>
<td>STYLEC</td>
<td>Style C fire monitor</td>
</tr>
<tr>
<td>SO</td>
<td>Sprinkler Supervisory</td>
<td>LATSUPV</td>
<td>Latching supervisory monitor (supervisory latches until system is reset)</td>
</tr>
<tr>
<td>IAM</td>
<td>Individual Addressable Module</td>
<td>ISOL</td>
<td>Addressable Isolator</td>
</tr>
<tr>
<td>SIGNAL</td>
<td>Signal IAM</td>
<td>MBZAM</td>
<td>Class B addressable IDC monitor module</td>
</tr>
<tr>
<td>RIAM</td>
<td>Addressable Relay</td>
<td>ADRPUL</td>
<td>Addressable manual station</td>
</tr>
</tbody>
</table>
## NAC Operation Modes

<table>
<thead>
<tr>
<th>Function Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSIG</td>
<td>Alarm signal, on until silenced</td>
</tr>
<tr>
<td>RSIG</td>
<td>Alarm signal, on until reset</td>
</tr>
<tr>
<td>TROUBLE</td>
<td>Trouble signal</td>
</tr>
<tr>
<td>SUPV</td>
<td>Supervisory signal</td>
</tr>
<tr>
<td>QALERT</td>
<td>SmartSync 2-wire horn/strobe control; horn on until silenced, strobe on until reset</td>
</tr>
<tr>
<td>WHEELOCK</td>
<td>Provides Wheelock strobe synch protocol when using only Wheelock strobes on panel, not to be mixed with Simplex strobes</td>
</tr>
<tr>
<td>UTILITY</td>
<td>Utility signal, generic non-alarm</td>
</tr>
</tbody>
</table>

## Relay Operation Modes

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

### Common Fire Alarm Operations

<table>
<thead>
<tr>
<th>Function Type</th>
<th>Relay Activates Upon</th>
<th>Relay Deactivates Upon</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRELAY</td>
<td>General Alarm</td>
<td>Silence</td>
</tr>
<tr>
<td>RRELAY</td>
<td>General Alarm</td>
<td>Reset</td>
</tr>
<tr>
<td>SUPV</td>
<td>Supervisory condition</td>
<td>Clear</td>
</tr>
<tr>
<td>TRBL</td>
<td>Trouble condition</td>
<td>Clear</td>
</tr>
</tbody>
</table>

### Special Functions

<table>
<thead>
<tr>
<th>Function Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTILITY</td>
<td>Utility input in the same alarm group activates</td>
</tr>
<tr>
<td>PRIMARY</td>
<td>General alarm; relay is tied to Primary Elevator Recall contacts</td>
</tr>
<tr>
<td>ALTERN</td>
<td>General alarm; relay is tied to Alternate Elevator Recall contacts</td>
</tr>
<tr>
<td>DRESET</td>
<td>Relay provides 24 VDC power to 4-wire addressable detectors; relay turns off for 5 seconds on System Reset</td>
</tr>
<tr>
<td>DHOLDER</td>
<td>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</td>
</tr>
</tbody>
</table>

## Additional Programming Feature Details

<table>
<thead>
<tr>
<th>Function</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom labels</td>
<td>Up to 20 characters per point; a built-in message library provides for commonly used words for easy front panel programming</td>
</tr>
</tbody>
</table>

### Message Library

| North | South | East | West | Front | Center | rear | 5th | Flr_1 | Flr_2 | Flr_3 | Flr_4 | Flr_5 | RM_ | Basement | Floor | Garage | Hallway | HVAC_Room | Kitchen | Lobby | Office | Patient | upper | lower | main | first | 2nd | 3rd | 4th | Boiler_RM | Classroom | Closet | Corridor | Restroom | Elevator | Entrance | Restroom | Room | Stairway | Storeroom | Wing | Zone |
|--------|-------|------|------|------|-------|------|----|------|------|------|------|------|------|----|----------|-------|--------|---------|-----------|--------|------|--------|----------|-------|------|------|------|-----|------|------|------|-----|----------|-----------|-------|--------|--------|--------|--------|--------|

### 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; Scans of addressable loop adds addressable devices, displays total added; checks for duplicate addresses and identifies errors

### 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 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

Knockouts are located on top and sides

Battery Area
No conduit or wiring in this area

AC Input Terminals

Main board

Display Assembly

Expansion Power Supply*

City Module* or Expansion Relay Module*

NOTE: For semi-flush mounting, cabinet must extend 1-1/2" (38 mm) minimum from wall surface

Door LED Annunciator Details

14 CUSTOM LABEL AREAS are available, typically for location identification and NAC annunciation (shown labeled for reference, blank labels are provided); dual LED locations have a Red LED (top) and a Yellow LED (bottom); labels insert into pockets behind the overlay; LED operation is programmable to track other monitored status conditions

FOUR YELLOW LEDs provide default NAC Trouble annunciation (shown labeled as NAC 1-4)