

Features

Remote LCD annunciator for use with Simplex model 4010, 4006, and 4008 fire alarm control panels

LCD readout provides:

- Two lines of 40 characters each
- Wide viewing angle, super-twist design
- LED backlighting

Control switches and status LEDs for:

- Alarm, supervisory, or trouble acknowledge (keyswitch access controlled)
- Alarm silence
- 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

Additional features:

- Information is transmitted over a single twisted, shielded pair; separate wiring is required for 24 VDC control panel power
- Tone-alert sounder provides local audible indication
- Lamp and LCD are functionally tested each time the keyswitch is turned on
- Mounts flush on standard 6-gang electrical box

Mounting and trim options:

- Surface mount box model 2975-9206 (ordered separately, see [4606-9101 LCD Annunciator Specifications](#))
- Brushed stainless steel trim model 4603-9111 (ordered separately)

Description

Local Annunciation.

4606-9101 LCD Annunciators allow compatible fire alarm control panels to provide information and control switches at convenient locations away from the control panel. The LCD is an 80 character, back-lit, alphanumeric display with information presented in clear and descriptive English. Typical content includes: point status (alarm, trouble, etc.), alarm type (smoke detector, manual station, etc.), number of system alarms, supervisory conditions, troubles, and custom location labels up to 40 characters long. (Some 4006/4008 messages are limited to 20 characters, refer to the control panel documentation for additional information.)

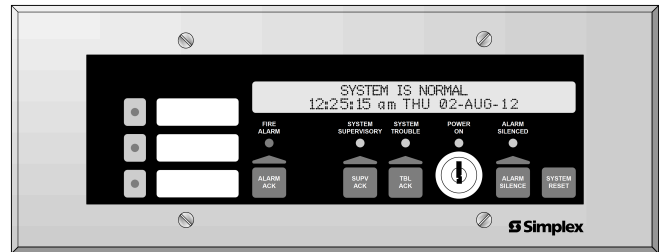
Communications.

Data communications require a single twisted, shielded pair that supports other annunciators on the same communications channel. Model 4010 Series panels control up to six annunciators; Model 4006 and 4008 Series panels control up to four annunciators.

Indications.

Alarm, Supervisory, and Trouble conditions are also indicated by dedicated LEDs and a tone-alert audible indication. Each condition has a dedicated acknowledge push-button switch that silences the tone-alert but leaves the LED on until all conditions in that category are restored to normal.

Figure 1: 4606-9101 LCD Annunciator



Activity Scrolling.

Repeated operation of the appropriate acknowledge switch will scroll the LCD display showing activity in the sequence of occurrence. The internal tone-alert also sounds to indicate the operation of any of the push-button switches.

Operation

Keyswitch Access. All switches on the annunciator are controlled by the "ENABLE" keyswitch with a key that is removable only in the disabled position.

Enabled Operations. When enabled, notification appliances can be deactivated by pressing the "ALARM SILENCE" switch. Pressing the "SYSTEM RESET" switch restores the system to normal operation. When system activity is normal, the LCD displays the time, date, and "SYSTEM IS NORMAL."

* 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 7120-0026:0225 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. Additional listings may be applicable; contact your local product supplier for the latest status. Listings and approvals under Time Recorder Co. are the property of Tyco Fire Protection Products.

Product Selection

Table 1: Product Selection

SKU	Description	
4606-9101	Remote LCD Annunciator with beige trim	Refer to 4606-9101 LCD Annunciator Specifications for additional details
4603-9111	Brushed stainless steel trim option	
2975-9206	Matching surface mount box; ivory finish	
4081-9011	Line matching resistor harness; 100 Ω, 1/2 W; (reference no. 733-974)	
2081-9044	Overvoltage protector; required where annunciator communications and power wiring exits and enters a building; refer to data sheet <i>S2081-0016</i> for details	

4606-9101 LCD Annunciator Specifications

Table 2: General Operating Specifications (refer to Installation Instructions 579-978 for additional information)

Specification	Rating
Voltage	18 to 32 VDC, system supplied
Normal Operating Current	110 mA (with LED backlighting on)
Battery Standby Current	65 mA (during battery backup, LED backlighting is turned off after 30 seconds without switch activity)
Alarm Current	140 mA maximum (LED backlighting is on and tone-alert is sounding)
Operating Temperature Range	32° to 120° F (0° to 49° C)
Operating Humidity Range	Up to 93% RH, non-condensing at 100° F (38° C)

Table 3: Communications

Specification	Rating	
For 4010 Panels*	Type	N2 external annunciator communications line
	Capacity	Up to 6 annunciator modules total, 4606-9101 or 4605 series, 24 point I/O modules
For 4006& 4008 Panels*	Type	N2 communications format but with different capacity
	Capacity	Up to 4 annunciator modules total; compatible with 4606-9101, 4610-9111, and door mounted LED annunciator
Wiring Requirements	Data	Single twisted, shielded pair, 18 AWG (0.82 mm ²)
	Power and Earth	18 to 12 AWG (0.82 mm ² to 3.31 mm ²) wires for 24 VDC system power and Earth ground for electrical box (ground per local code)
Distance	Bus-style wiring	Up to 4000 ft (1219 m); 0.58 μF (580 nF) maximum capacitance; 35 Ω maximum resistance
	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
	T-Tap wiring	Connect one at panel and one at farthest device
		100 Ω, 1/2 W; PID 4081-9011; (part number 733-974)

Table 4: Mounting Information

Specification	Rating	
Trim Dimensions	4 ½ in. H x 11 13/16 in. W (114 mm x 300 mm)	
Assembly Depth	1 5/16 in. (33 mm), 1 ½ in. at terminal block location (38 mm)	
Standard Trim Finish	Steel, painted beige	
4603-9111, Optional Trim	Brushed stainless steel (ordered separately); supplied with both slotted and tamper resistant screws	
Boxes for Flush Mounting (supplied by others)	Masonry boxes	Six-gang box, Steel City GW-635-G, 3 ½ in. (89 mm) deep or equal
	Single gang boxes	Six, single gang boxes, 3 ½ in. (89 mm) deep minimum, RACO # 590 or equal
	Box selection note	Conduit entrance is box dependent, refer to additional mounting information on page 4 and Installation Instructions 579-978

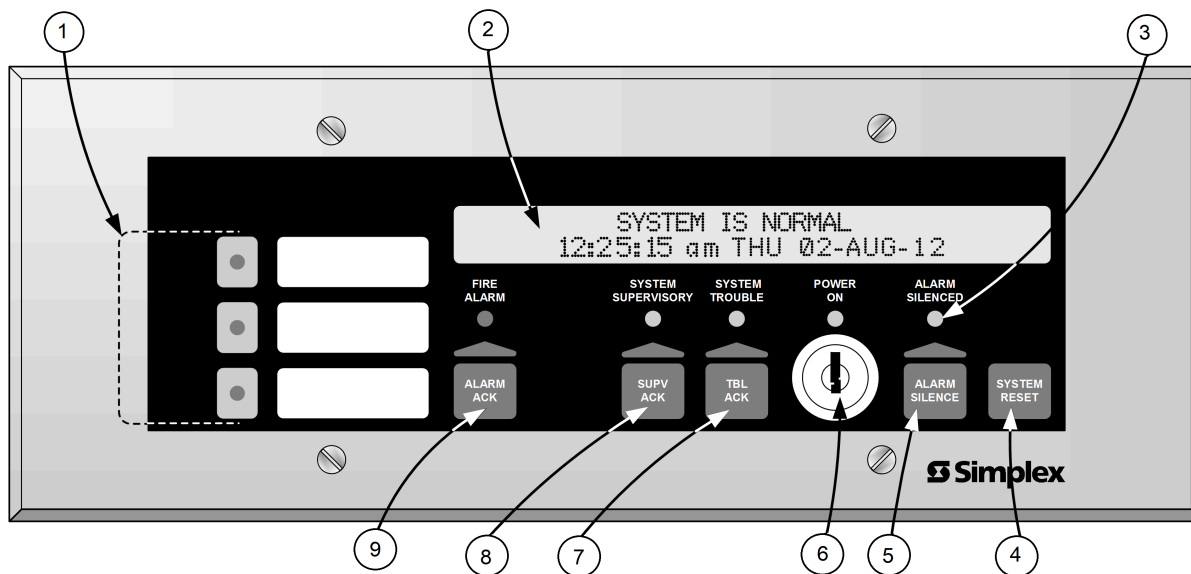
Table 5: 2975-9206, Surface Mount Box Option (ordered separately)

Specification	Rating
Dimensions	11 31/32 in. W x 4 5/8 in. H x 2 3/4 in. D (304 mm x 117 mm x 70 mm)
Finish	Painted steel, ivory finish

* Refer to control panel data sheets S4010-0001, S4006-0001, and *S4008-0001* for additional information.

4606-9101 Operator Information

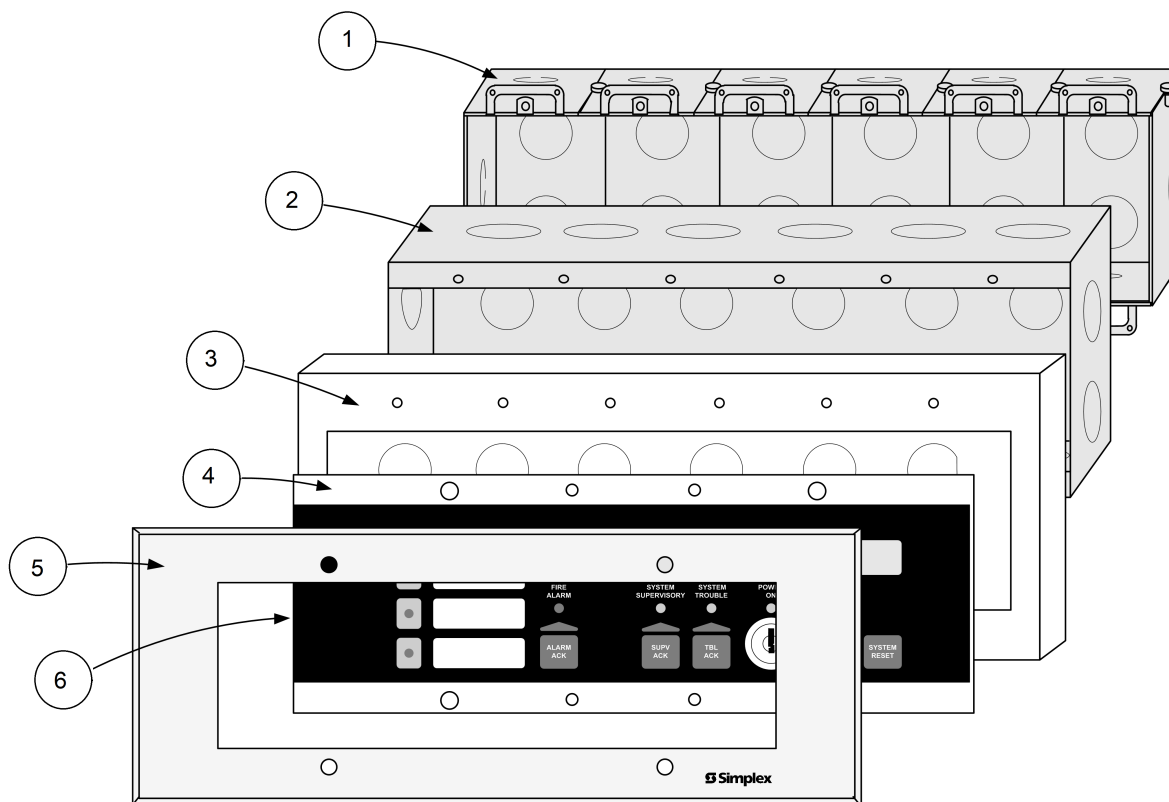
Figure 2: 4606-9101 Operator Information



Callout	Component
1	THREE PROGRAMMABLE (Yellow) LEDs, each with custom labeling pocket
2	2 x 40 LCD READOUT, green LED backlighted during normal conditions and abnormal operating conditions
3	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 steady until reset; Fire Alarm is red; System Supervisory, System Trouble, and Alarm Silenced are yellow; Power On is green
4	SYSTEM RESET restores control panel to normal when all alarmed inputs are returned to normal
5	ALARM SILENCE causes audible and visible notification appliances to be silenced (default operation, may be modified through panel programming for compliance with local requirements)
6	CONTROL ENABLE KEYSWITCH controls all switch functions; key is removable only in disabled position
7	TROUBLE ACK acknowledges System Troubles and silences the panel and all annunciator tone-alerts
8	SUPV ACK acknowledges System Supervisory conditions and silences the panel and all annunciator tone-alerts
9	ALARM ACK/FIRE ALARM acknowledges a Fire Alarm condition and silences the panel and all annunciator tone-alerts

Mounting Information

Figure 3: Mounting Information



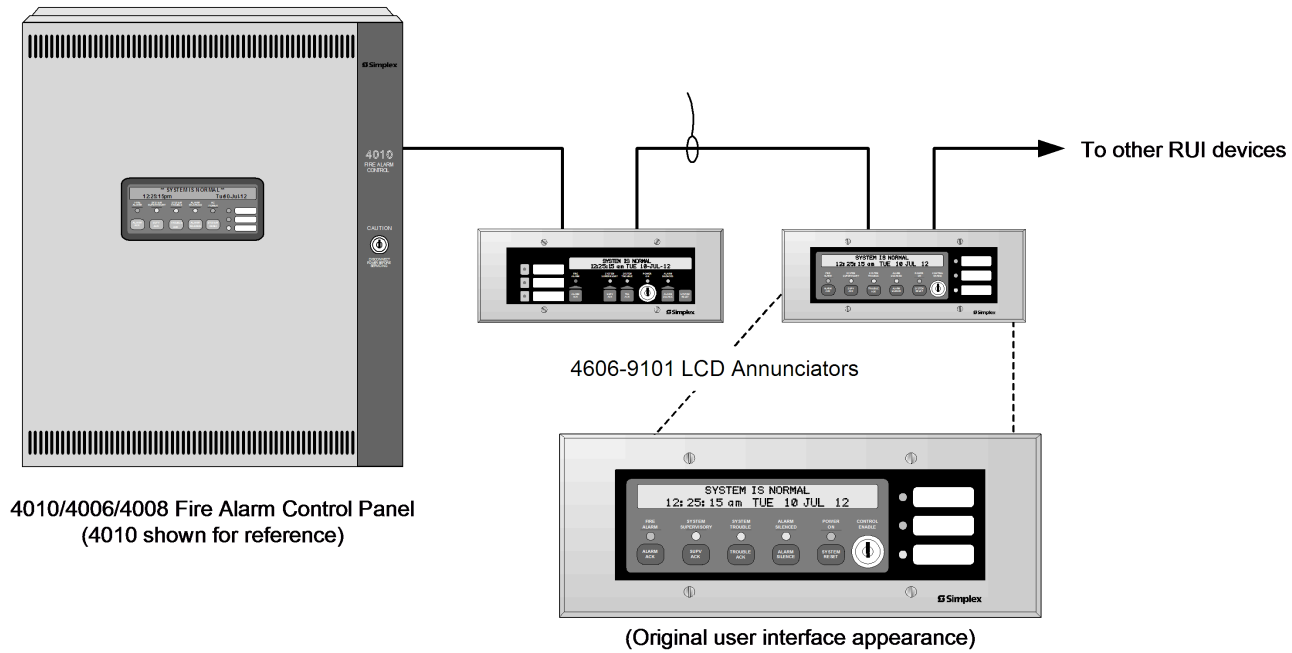
Callout	Component
1	Flush Mount Ganged Boxes: Requires 6-gang box, 3 ½ in. (89 mm) min. depth, use (6) RACO #590 or equal (supplied separately)
2	Flush Mount Masonry Box: Use Steel City GW-635-G or equal, 3 ½ in. (89 mm) min. deep or equal (supplied separately)
3	Surface Mount Box: Simplex model 2975-9206 2 ¾ in. deep (70 mm) (ordered separately)
4	LCD Annunciator Assembly
5	Trim plate
6	Terminal block access at rear of assembly, this side

Note: Review box choice with assembly layout before selecting conduit entrance location to allow easy access to terminals.

*The Surface mount box illustrated is 2975-9206.

Wiring Reference

Figure 4: Wiring Reference



The 4606-9101 LCD Annunciators is shown.

Interconnection Wiring Notes:

1. Communications require a single 18 AWG twisted, shielded pair.
2. Power requires two, 18 to 12 AWG wires for 24 VDC system power, plus Earth Ground to each electrical box.
3. Refer to Installation Instructions 579-978 for additional information.

