

Features

Remote LCD annunciator for use with Autocall model 4006 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 [A4606-9101 LCD Annunciator Specifications](#))
- Brushed stainless steel trim model A4603-9111 (ordered separately)

Description

Local Annunciation.

A4606-9101 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 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 4006 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.

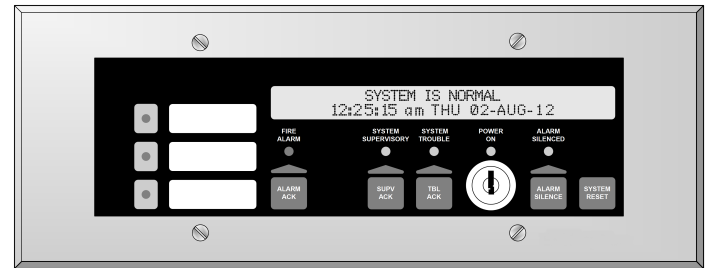


Figure 1: A4606-9101 LCD Annunciator

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."

A4606-9101 LCD Annunciator for 4006 Fire Alarm Control Panels

Product Selection

Table 1: Product Selection

SKU	Description	
A4606-9101	Remote LCD Annunciator with beige trim	Refer to A4606-9101 LCD Annunciator Specifications for additional details
A4603-9111	Brushed stainless steel trim option	
2975-9206	Matching surface mount box; ivory finish	
A4081-9011	Line matching resistor harness; 100 Ω, 1/2 W; (reference no. 733-974)	
A2081-9044	Overvoltage protector; required where annunciator communications and power wiring exits and enters a building; refer to data sheet AC2081-0016 for details	

A4606-9101 LCD Annunciator Specifications

Table 2: General Operating Specifications (refer to Installation Instructions 579-978AC 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 4006 Panels*	Type N2 communications format but with different capacity
	Capacity Up to 4 annunciator modules total; compatible with A4606-9101, A4610-9111, 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 μ F (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 A4081-9011; (part number 733-974)

Table 4: Mounting Information

Specification	Rating
Trim Dimensions	4 1/2" H x 11 13/16" W (114 mm x 300 mm)
Assembly Depth	1 5/16" (33 mm), 1 1/2" at terminal block location (38 mm)
Standard Trim Finish	Steel, painted beige
A4603-9111, 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 1/2" (89 mm) deep or equal
	Single gang boxes Six, single gang boxes, 3 1/2" (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 579-978AC

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

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

* Refer to control panel data sheets AC4010-0001, AC4006-0001 for additional information.

A4606-9101 Operator Information

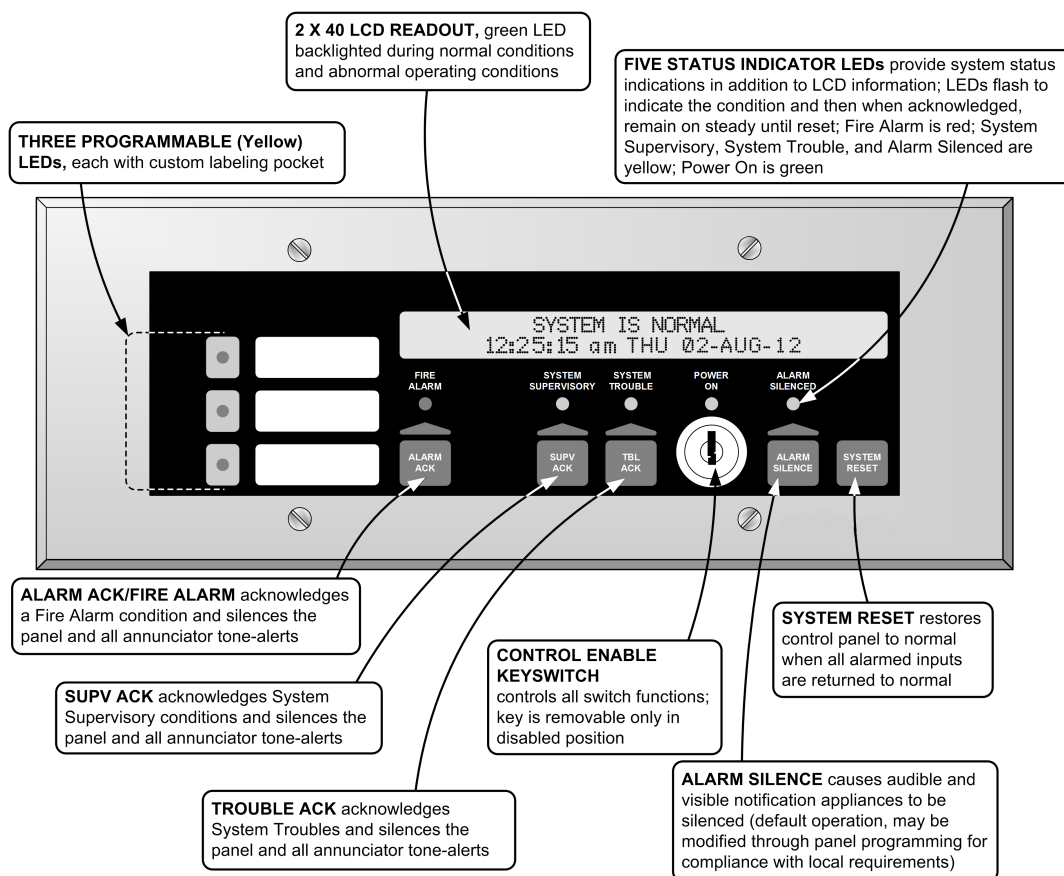


Figure 2: A4606-9101 Operator Information

Mounting Information

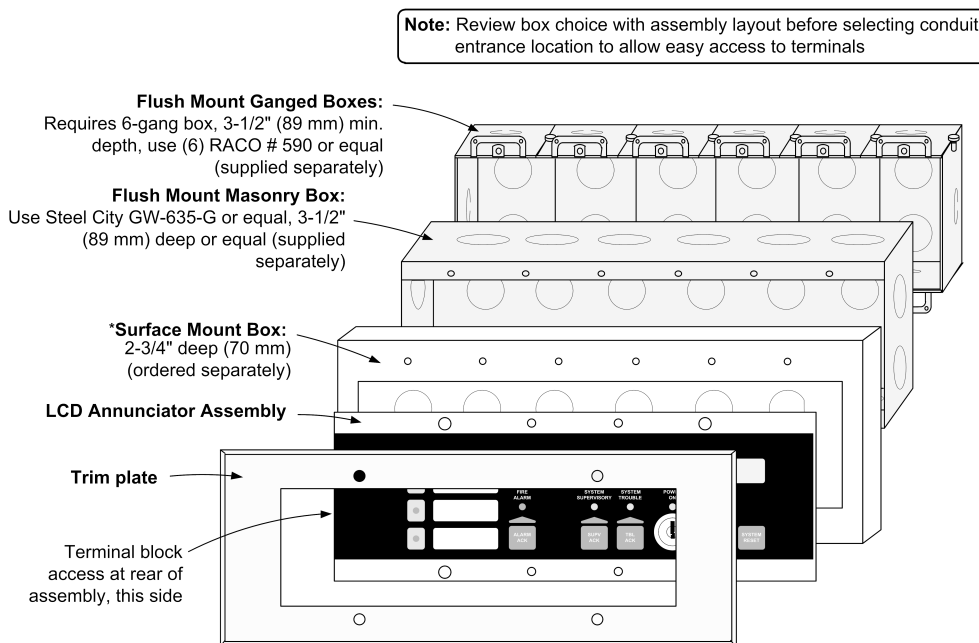


Figure 3: Mounting Information

*The Surface mount box illustrated is 2975-9206.

Wiring Reference

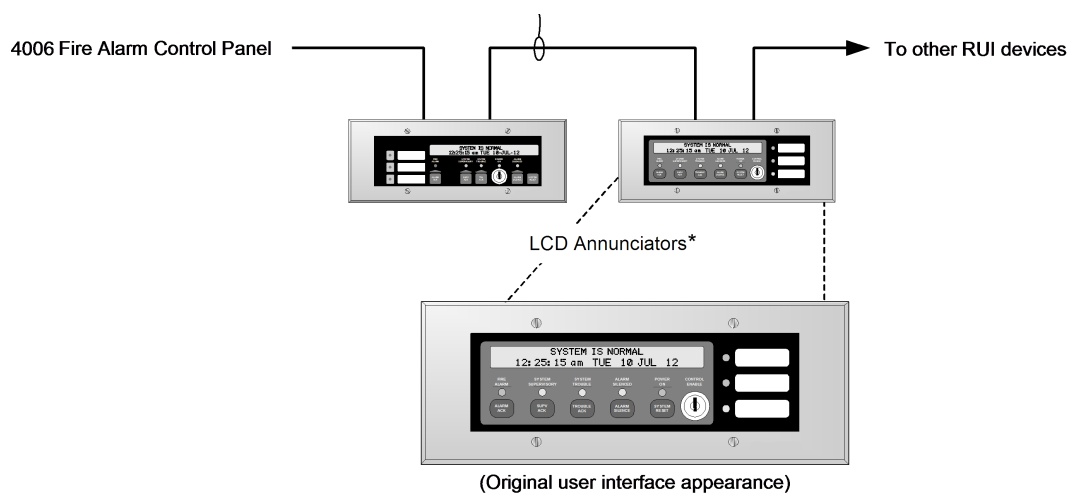


Figure 4: Wiring Reference

The A4606-9101 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 579-978AC for additional information.