

Features

Figure 1: 4606-9202 LCD Annunciator with Red Trim



Figure 2: 4606-9205 LCD Annunciator with Platinum Trim



Remote Color Touchscreen LCD annunciators for use with Simplex model 4007ES, and 4017ES fire alarm control panels

4.3 in. (109 mm) diagonal color touchscreen display:

- Provides the display features of the 4007ES, and 4017ES fire alarm control panel at a remote location
- Convenient and intuitive UI provides detailed system status and individual point information
- LED status indicators include Alarm, Priority 2, Supervisory, Trouble, Alarm Silenced, and Status of AC Power at the control panel
- Supports dual language choice, including unicode character languages
- Keyswitch is used for preset access level. Additional user access levels are passcode protected. Keyswitch and user access levels are configurable.
- Tone-alert sounder provides local audible indication
- Three programmable control switches with status LEDs and provisions for custom labeling

Additional features:

- Available with platinum or red trim
- Information is transmitted through a single unshielded twisted pair. Separate wiring is required for 24 VDC power.
- Mounts flush on RACO 944, 5-gang electrical box, supplied separately
- Up to 6 Color Touchscreen LCD Annunciators for every 4007ES, and 4017ES fire alarm control panel

Mounting box options, ordered separately:

- Surface mount boxes in red or platinum
- Semi-flush mount boxes in red or platinum. Can be used for legacy annunciator retrofit applications.

Description

Local annunciation and control

With 4606-9202 and 4606-9205 series LCD annunciators, the 4007ES and 4017ES fire alarm control panels provide information and control switches at convenient locations away from the control panel. The color touchscreen LCD with backlighting displays information in clear and descriptive language. English is standard, and you can program other languages. Content includes:

- Point status such as alarm, or trouble
- Alarm type such as smoke detector, and manual station
- Number of system alarms
- Supervisory conditions
- Troubles
- Custom location labels up to 40 characters long.

Communications

Data communications require a single unshielded twisted pair that supports other annunciators on the same communications channel.

Indications

Alarm, Priority 2, Supervisory, Trouble, and Alarm Silenced conditions are indicated by dedicated LEDs and a tone-alert audible indication. Each condition causes the display to present 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.

Custom background

The 4007ES, and 4017ES control panel supports a custom background image that is also displayed on each of the color touchscreen annunciators when status is normal. File types supported are JPG, BMP, GIF, and PNG. The best image type is JPG, the best image size is 480 x 240, and the file size limit is 100 kb.

Operation

Keyswitch access

You can control touchscreen display access by a keyswitch with a key that you can remove when the position is disabled. Access is configurable for every annunciator.

Enabled operations

When the keyswitch is on, system status indications display as they occur with individual point detail as programmed at the control panel, and soft keys are displayed for user actions.

Screen backlight

When the display has not been touched, and no new system status has occurred for 60 seconds, the backlight dims to 20% of normal brightness. If there is no activity in the system it is normal, and the standby screen displays the current time and date to verify correct operation. If an event occurs, or with the keyswitch activated, and the screen is touched, the backlight returns to full intensity.

Lamp test

When you select the display menu, it provides a lamp test feature that activates the 9 panel LEDs for 5 seconds. Dual-color LEDs blink alternately.

* 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 7300-0026:0382 for allowable values and/or conditions concerning material presented in this document. NYC Fire Dept COA #6191A. 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.

Products

Table 1: Annunciator products

Model	Color	Description	Dimensions W x H x D
4606-9202, 4606-9202BA	Red	Remote Color Touchscreen LCD for flush mounting in a 5-gang RACO 944 box, or equal, supplied separately	Annunciator: 13 in. x 5.21 in. x 2 in. (330 mm x 132 mm x 51 mm)
4606-9205, 4606-9205BA	Platinum		RACO 944 Box (reference): 12-1/4 in. 4-1/2 in. x 2-1/2 in. (311 mm x 114 mm x 64 mm)
2975-9461	Red	Surface mount metal box for Remote Color Touchscreen LCD annunciators	12-1/4 in. x 4-1/2 in. x 2-1/2 in. (311 mm x 114 mm x 64 mm)
2975-9462	Platinum		
2975-9463	Red	Semi-flush mount metal box adapter for Remote Color Touchscreen LCD annunciators. Use for mounting on existing 2-gang, 4-gang, 6-gang, or 4in. (102 mm) square flush mounted boxes	12-1/4 in. x 4-1/2 in. x 1-3/4 in. (311 mm x 114 mm x 44 mm)
2975-9464	Platinum		

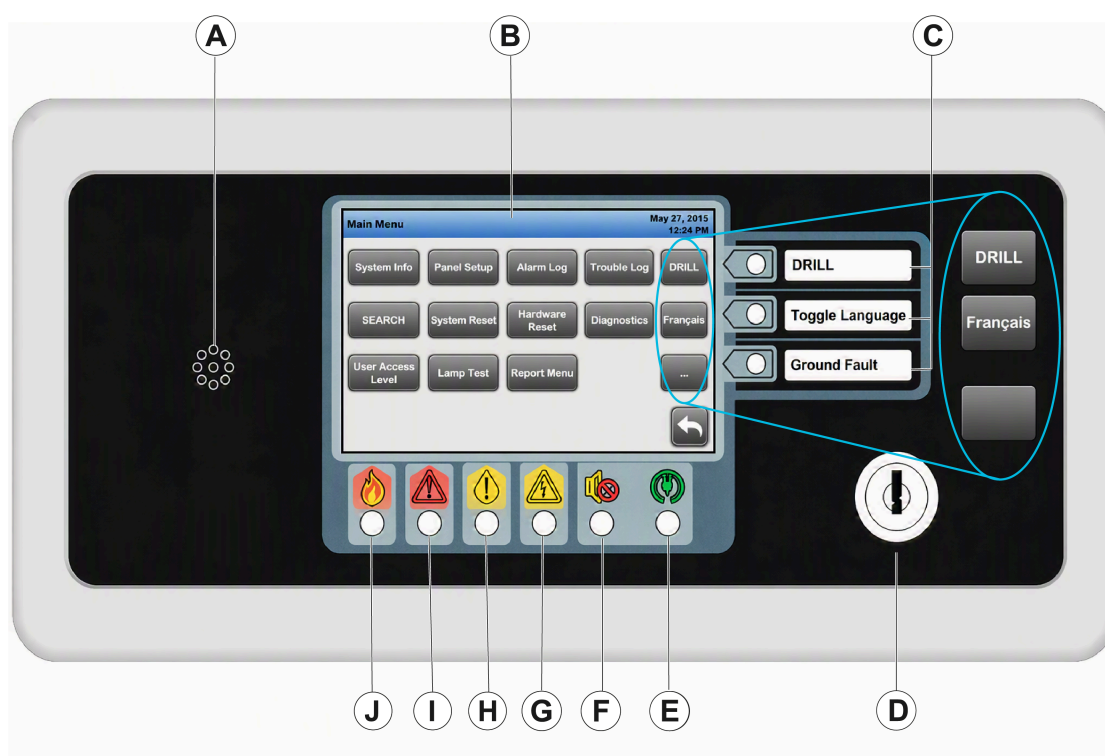
Note: SKUs with a BA suffix are assembled in the USA.

Table 2: Suppression products

Model	Description	Data sheet
2081-9044	Overvoltage Protector, rated for up to 200 mA. Use for RUI communications.	S2081-0016
2081-9028	Isolated Loop Circuit Protector (ILCP), rated for 5 A maximum. Use for 24 VDC power wiring when more than 200 mA	S2081-0008

Note: You need suppression where annunciator communications and power wiring exits and enters a building.

Operator information



Callout	Component
A	Local sounder
B	Color touchscreen LED that shows a sample main menu.
C	3 programmable LEDs with custom label insert and optional programmable touchscreen control keys for every LED. You can select the top two LEDs as red or yellow, and you can select the bottom two LEDs as green or yellow. For dual language options, you can program one of the control keys to toggle between languages. The image insert is blank and the labels shown are for reference.
D	You can control all switch functions with the control enable keyswitch. You can only remove the key from the disabled position.
E	AC mains power status at control panel. Green LED.
F	Alarm silenced. Yellow LED
G	Trouble indicator. Yellow LED
H	Supervisory indicator. Yellow LED
I	Priority 2 indicator. Red LED
J	Alarm indicator. Red LED

Operator screen reference

Figure 3: You can navigate through the main menu screen to the required function. Buttons A, B, and C have programmable functions.

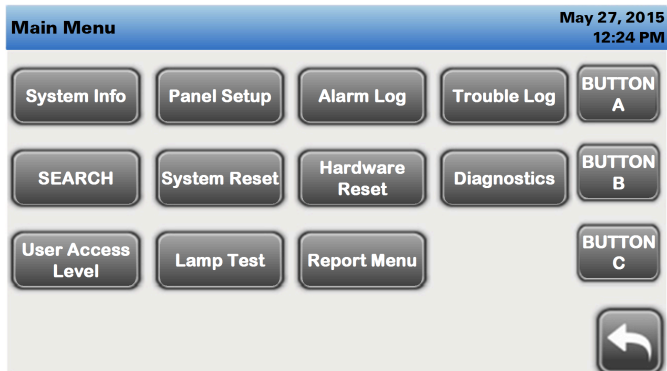


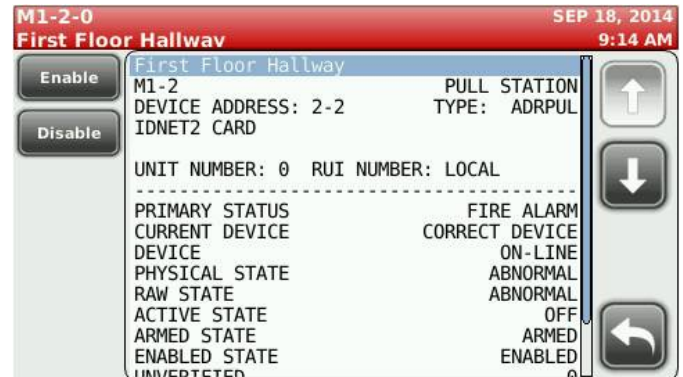
Figure 4: The System Alarm Screen identifies active alarms with custom labels displayed, and you can navigate through the list with arrows.



Figure 5: The System Trouble Screen identifies active troubles with custom labels displayed, and you can navigate through the list with arrows.



Figure 6: You can review point details with the Point Information Screen, and you can navigate with arrows for information.



Specifications

Table 3: General operating specifications

Specification		Rating	
Voltage		18 to 32 VDC, system supplied	
Current Details	Condition	Current	Details
	Alarm	124 mA	Backlight at full intensity and tone-alert sounding
	Display Active	70 mA	Backlight at full intensity, occurs when activity is in process
	Standby	45 mA	Backlight dimmed to 20% of full intensity, occurs after 1 minute of no system activity
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 4: Communications

Specification		Description
For 4007ES, and 4017ES panels	Type	RUI (Remote Unit Interface) external annunciator communications line SLC (signaling line circuit)
	Capacity	Up to 6 Color Touchscreen LCD Annunciators

Table 5: Wiring requirements

Specification		Description
RUI Data	Standard Wiring Type	Unshielded twisted pair (UTP), 18 AWG (0.82 mm ²) for most applications, see the following specifications.
	Wiring Characteristics	0.58 µF (580 nF) maximum capacitance between conductors, 35 Ω maximum total line resistance
	Wiring Applications Requiring Shielded, Twisted Pair (STP)	Wiring that leaves the building. RUI wiring also requires 2081-9044 Overvoltage Protectors on each end. Wiring run in 500 ft (152 m) or more of conduit. Wiring closely bundled with standard IDNet communications or TrueAlert addressable communications (not required when run with IDNet+ communications).
	Class B T-Tap wiring distance	Up to 10,000 ft (3048 m) total wiring, up to 2500 ft (762 m) to farthest device
	Class X wiring distance	Up to 2500 ft (762 m)
Power Wiring		Terminals for 18 to 12 AWG (0.82 mm ² to 3.31 mm ²) wires for 24 VDC system power.
Earth Wiring		A dedicated earth ground connection to the electrical box is required for correct ESD and EMI protection. Wire in accordance with National Electrical Code 70 (NFPA) Article 250.

Table 6: Mounting information

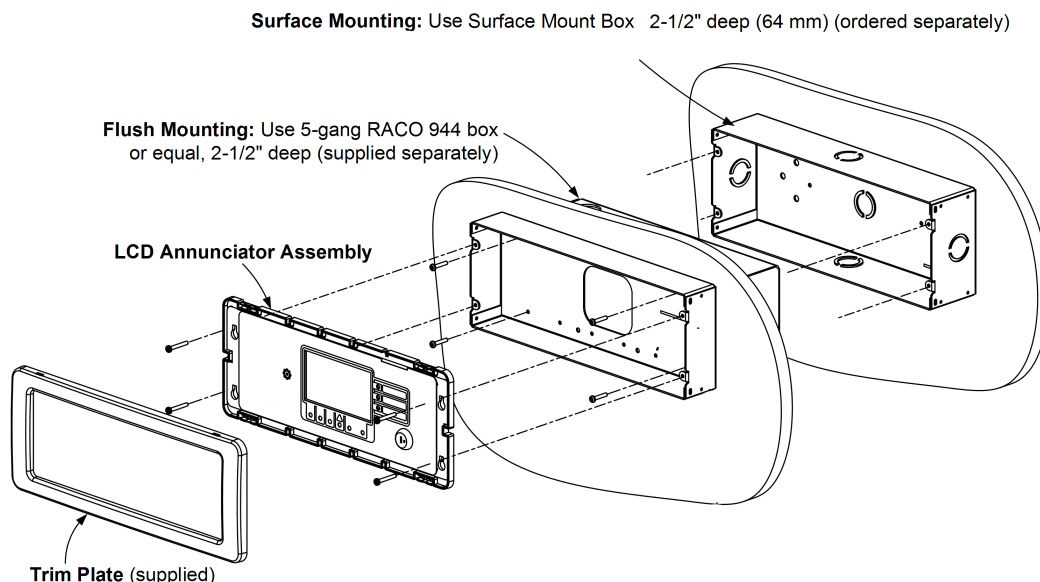
Item	Description
Boxes for Flush Mounting, supplied separately	5-gang masonry box, RACO # 944, 2-1/2 in. (64 mm) deep or equal

Table 7: Additional reference

Reference	Description
Installation Instructions	579-1172
4007ES, and 4017ES Data Sheets	S4007-0001, 4007ES Hybrid
	S4007-0002, 4007ES with IDNAC Notification
	S4017-WNAC, with Non-Addressable NAC
	S4017-WIDNAC, with Addressable NAC

Mounting information

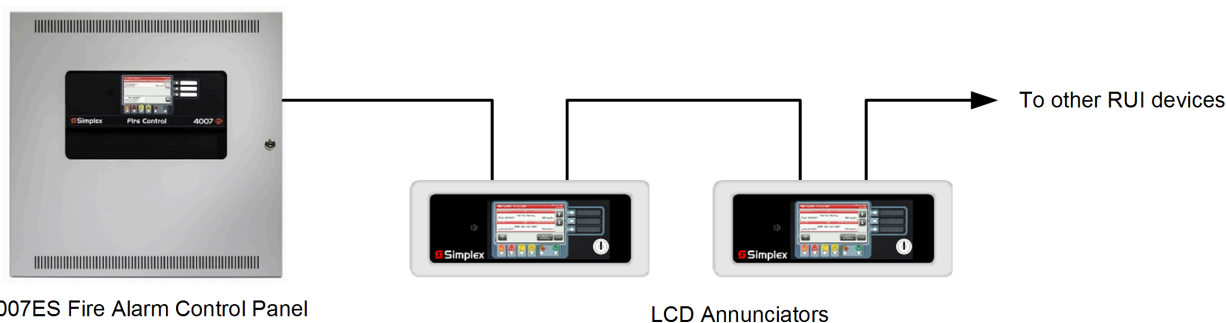
Figure 7: LCD annunciator mounting information



Note:

- For surface mounting, use Simplex Surface Mount Box Model 2975-9461 (red) or 2975-9462 (platinum), 2-1/2 in. deep (64 mm) (ordered separately).
- For semi-flush mounting, use Simplex Semi-Flush Box Adapter Model 2975-9463 (red) or 2975-9464 (platinum), 1-3/4 in. deep (44 mm) (ordered separately); use for mounting on existing 2-gang, 4-gang, 6-gang, or 4 in. square flush mounted electrical boxes (supplied separately).

Wiring reference



Wiring reference shows 4606-9202 LCD Annunciators.

Note:

Interconnection wiring

- Communication requires 18 to 12 AWG unshielded twisted pair.
- Power requires two, 18 to 12 AWG wires for 24 VDC system power, plus earth ground to each electrical box.
- Refer to installation instructions 579-1172 for additional wiring specifications.