### Features

Remote LCD annunciator for use with Simplex® model 4010ES 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, Priority 2, Supervisory, or Trouble acknowledge (keyswitch access controlled)
- Alarm silence, System reset
- Three programmable control switches with yellow LEDs and provisions for custom labeling

**Additional features:**
- Information is transmitted over a single unshielded twisted pair; separate wiring is required for 24 VDC control panel power (see p. 3 for more information)
- 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
- Up to up to 20 internal and external card addresses per 4010ES fire alarm control panel

**Mounting and trim options** (ordered separately, see page 3 for more details):
- Surface mount box model 2975-9206
- Brushed stainless steel trim model 4603-9111

### Description

**Local Annunciation.** 4606-9102 LCD Annunciator allows 4010ES 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.

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

---

* 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 7300-0026-0370 for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. NYC Fire Dept COA #6095. 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.
### Product Selection

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Refer to specifications on page 3 for additional details</th>
</tr>
</thead>
<tbody>
<tr>
<td>4606-9102</td>
<td>Remote LCD Annunciator with beige trim for use with 4010ES fire alarm control panels</td>
<td></td>
</tr>
<tr>
<td>4603-9111</td>
<td>Brushed stainless steel trim option</td>
<td></td>
</tr>
<tr>
<td>2975-9206</td>
<td>Matching surface mount box; ivory finish</td>
<td></td>
</tr>
<tr>
<td>2081-9044</td>
<td>Overvoltage protector; required where annunciator communications and power wiring exits and enters a building; refer to data sheet S2081-0016 for details</td>
<td></td>
</tr>
</tbody>
</table>

#### 4606-9102 Operator Information

**2 X 40 LCD READOUT**, green LED backlit during normal conditions and abnormal operating conditions

**SIX 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 and Priority 2 Alarm are red, System Supervisory, System Trouble, and Alarm Silenced are yellow; Power On is green

**THREE PROGRAMMABLE (Yellow) LEDs**, each with pushbutton switch and custom labeling pocket

**DISPLAY TIME** displays time of last occurrence of event list being displayed; or displays current time when viewing system status information

**ALARM ACK/FIRE ALARM** acknowledges a Fire Alarm condition and silences the panel and all annunciator tone-alerts

**ALARM ACK/PRIORITY 2** acknowledges a Priority 2 Alarm condition and silences the panel and all annunciator tone-alerts

**SUPV ACK** acknowledges System Supervisory conditions and silences the panel and all annunciator tone-alerts

**TROUBLE ACK** acknowledges System Troubles and silences the panel and all annunciator tone-alerts

**CONTROL ENABLE KEYSWITCH** controls all switch functions; key is removable only in disabled position

**ALARM SILENCE** causes audible and visible notification appliances to be silenced (default operation, may be modified through panel programming for compliance with local requirements)

**SYSTEM RESET** restores control panel to normal when all alarmed inputs are returned to normal
## General Operating Specifications

(Refer to Installation Instructions 579-977 for additional information)

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

## Communications

For 4010ES Panels*

<table>
<thead>
<tr>
<th>Type</th>
<th>RUI (Remote Unit Interface) external annunciator communications line SLC (signaling line circuit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Up to 20 total internal and external card addresses</td>
</tr>
</tbody>
</table>

### Wiring Requirements

<table>
<thead>
<tr>
<th>Standard Wiring Type</th>
<th>Unshielded twisted pair (UTP), 18 AWG (0.82 mm²) for most applications, see below</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring Characteristics</td>
<td>0.58 µF (580 nF) maximum capacitance between conductors; 35 Ω maximum total line resistance</td>
</tr>
</tbody>
</table>

**RUI Data**

**Wiring Applications Requiring Shielded, Twisted Pair (STP)**

1. Wiring that leaves the building. Also requires Isolated Loop Circuit Protectors on each end, refer to data sheet S2081-0007 for 2081-9027 (200 mA), or S2081-0008 for 2081-9028 (5 A)
2. Wiring run in 500 ft (152 m) or more of conduit.
3. 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

18 to 12 AWG (0.82 mm² to 3.31 mm²) wires for 24 VDC system power

### Earth Wiring

A dedicated earth ground connection to the electrical box is required for proper ESD and EMI protection; wire in accordance with NFPA 70 (*National Electrical Code*) Article 250

## Mounting Information

<table>
<thead>
<tr>
<th>Trim Dimensions</th>
<th>4 ½“ H x 11 ¾/16“ W (114 mm x 300 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assembly Depth</td>
<td>1 ¾/16“ (33 mm), 1 ¼“ at terminal block location (38 mm)</td>
</tr>
<tr>
<td>Standard Trim Finish</td>
<td>Steel, painted beige</td>
</tr>
</tbody>
</table>

### 4603-9111, Optional Trim

Brushed stainless steel (ordered separately); supplied with both slotted and tamper resistant screws

**Boxes for Flush Mounting (supplied separately)**

<table>
<thead>
<tr>
<th>Masonry boxes</th>
<th>Six-gang box, RACO # 965, 3 ½“ (89 mm) deep or equal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single gang boxes</td>
<td>Six, single gang boxes, 3 ½“ (89 mm) deep minimum, RACO # 590 or equal</td>
</tr>
<tr>
<td>Box selection note</td>
<td>Conduit entrance is box dependent, refer to Installation Instructions 579-977 for additional mounting information and conduit entry requirements</td>
</tr>
</tbody>
</table>

### 2975-9206, Surface Mount Box Option (ordered separately)

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>12” W x 4 ½“ H x 2 ¾/4“ D (305 mm x 117 mm x 70 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish</td>
<td>Painted steel, ivory finish</td>
</tr>
</tbody>
</table>

* Refer to the 4010ES control panel data sheet for additional panel information.
Flush Mount Ganged Boxes:
Requires 6-gang box, 3-1/2" (89 mm) min. depth, use (6) RACO # 590 or equal (supplied separately)

Flush Mount Masonry Box:
Use RACO # 965, 3-1/2" (89 mm) deep or equal (supplied separately)

Surface Mount Box:
Simplex model 2975-9206
2-3/4" deep (70 mm) (ordered separately)

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

Interconnection Wiring Notes:
1. Communications require 18 to 12 AWG unshielded twisted 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 579-977 for additional wiring specifications.