

## Features

### Color ES Touch Screen Remote Displays and Annunciators for use with 4100ES and 4010ES Fire Alarm Control Units

#### ES Touch Screen Remote Displays provide customized operating convenience:

- Event activity display choices include: First 8 Events; or First 7 Events with emphasis on Most Recent; or First 6 Events with emphasis on First and Most Recent (individually selectable for each event type)
- System reports are easily viewable; logs can be read with minimal scrolling
- Up to two languages are available per system, easily selected by programmable key press
- Information sent to ES Touch Screen Remote Displays can be vectored by point or zone
- Both Hard and Soft keys available for critical functions: Event Acknowledge, Alarm Silence, and Reset Functions
- Resistive touchscreen technology allows operation with or without gloves
- Seven programmable RGY LEDs available for user-defined display status (up to 2 status conditions per LED)
- Seven programmable Soft keys available for user-defined control or maintenance functions
- PRI2 Soft key label can be changed to CO to annunciate Carbon Monoxide detection status
- ES Touch Screen Display can be programmed to report individual points or groups of points as a single zone

#### Display properties:

- 8 inch (203 mm) diagonal, 800 x 600 resolution color touch screen display capable of annunciating up to 8 active events without scrolling
- Bright white LED backlighting provides efficient and long lasting illumination; backlight is dim in quiescent state, automatically switches to full power on touch or on event activity in system.

## Introduction

The Color ES Touch Screen Displays offer intuitive operation similar to a tablet or smart phone that mimic the fire alarm control unit user interface operation. By using a larger area format versus an individual text line display, more information is available at-a-glance and minimal key presses are needed to access detailed information.



Figure 1: ES Touch Screen Display in Remote Cabinet

## Description

ES Touch Screen Remote Displays for 4100ES and 4010ES fire alarm systems provide a large display with extended information content, dual language support including UTF-8 character languages, and an intuitive control key interface per the following:

- Up to 10 ES Touch Screen Displays are supported per 4100ES or 4010ES control panel; able to allow one ES Touch Screen Display to take-control and to designate access levels for interfaces not in-control; programmable LEDs can be assigned to in-control status indications
- Menu-driven format conveniently prompts operators for the next action required
- Direct point callup displays individual points alphabetically and then homes in on the logical choice as more point information is entered
- Event categories are color coded for quick visual representation; Red for Alarm and Priority 2 Events; Yellow for Supervisory and Trouble events
- Date formats are either MM/DD/YY or DD/MM/YY
- Time formats are either 24 hour or 12 hour with AM/PM
- System Normal screen supports a color background (watermark) for company name, company logo, site plan, or other desired display content

\* Additional listings may be applicable; contact your local Simplex product supplier for the latest status.

Example Display Screens

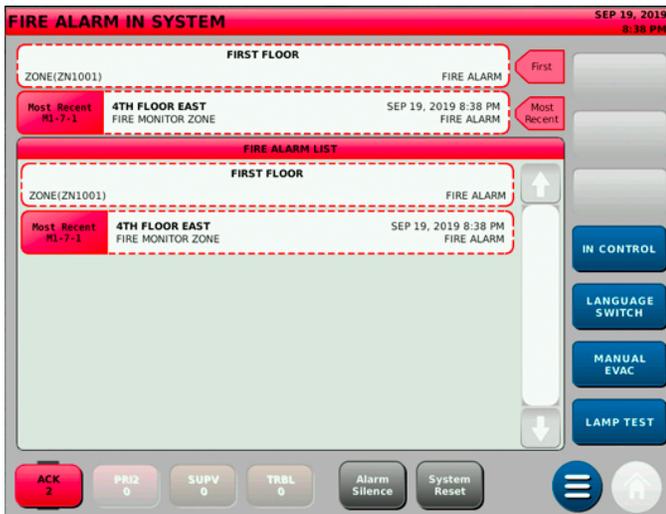


Figure 2: First and Most Recent Alarm Display



Figure 3: Main Menu

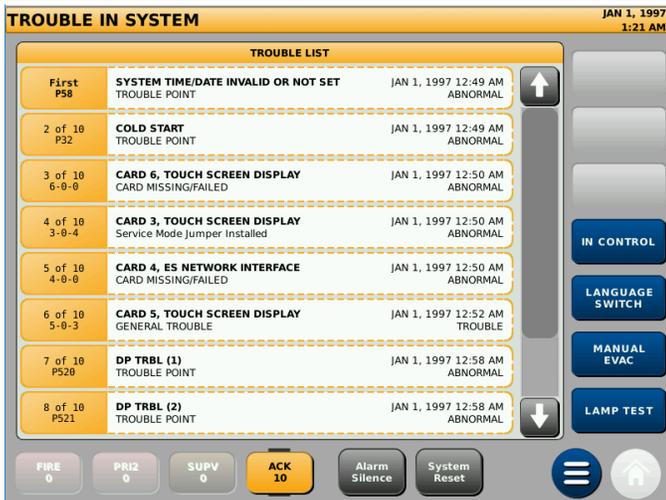


Figure 4: First Eight Active Trouble Events List



Figure 5: Direct Point Callup

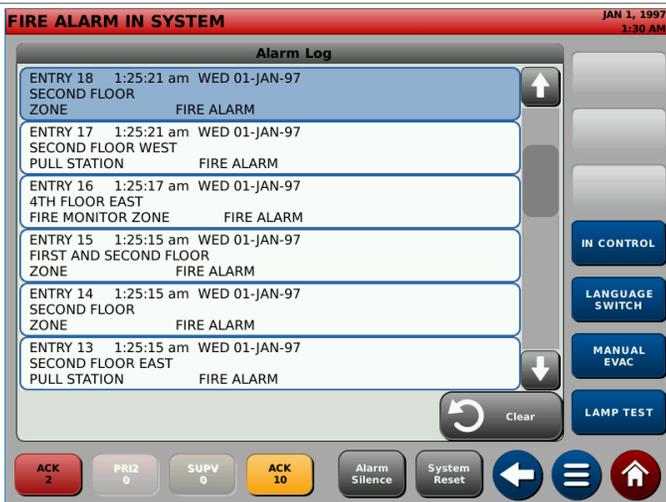


Figure 6: Alarm History Log

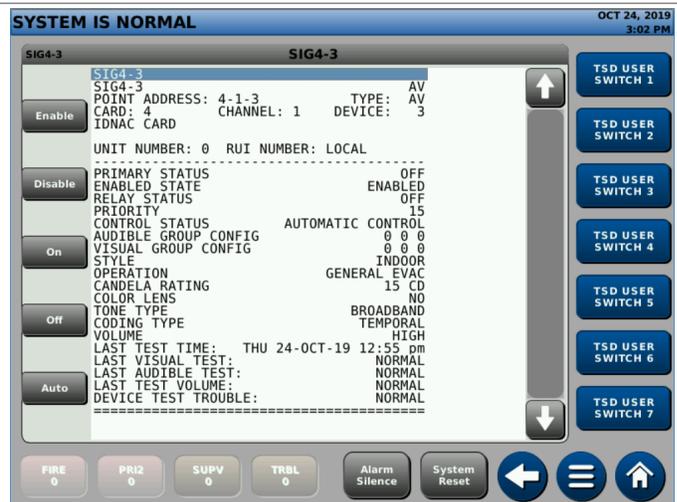


Figure 7: Detailed Point Status Screen for TrueAlert ES Appliance

## Control Panel Operation Reference

**Note:** Refer to 579-1329 for detailed operator instructions.

The Color ES Touch Screen Display interface offers intuitive operation similar to a tablet or smart phone. With a larger area format versus an individual text line display, more information is available at a glance, and minimal key presses are needed to access detailed information.

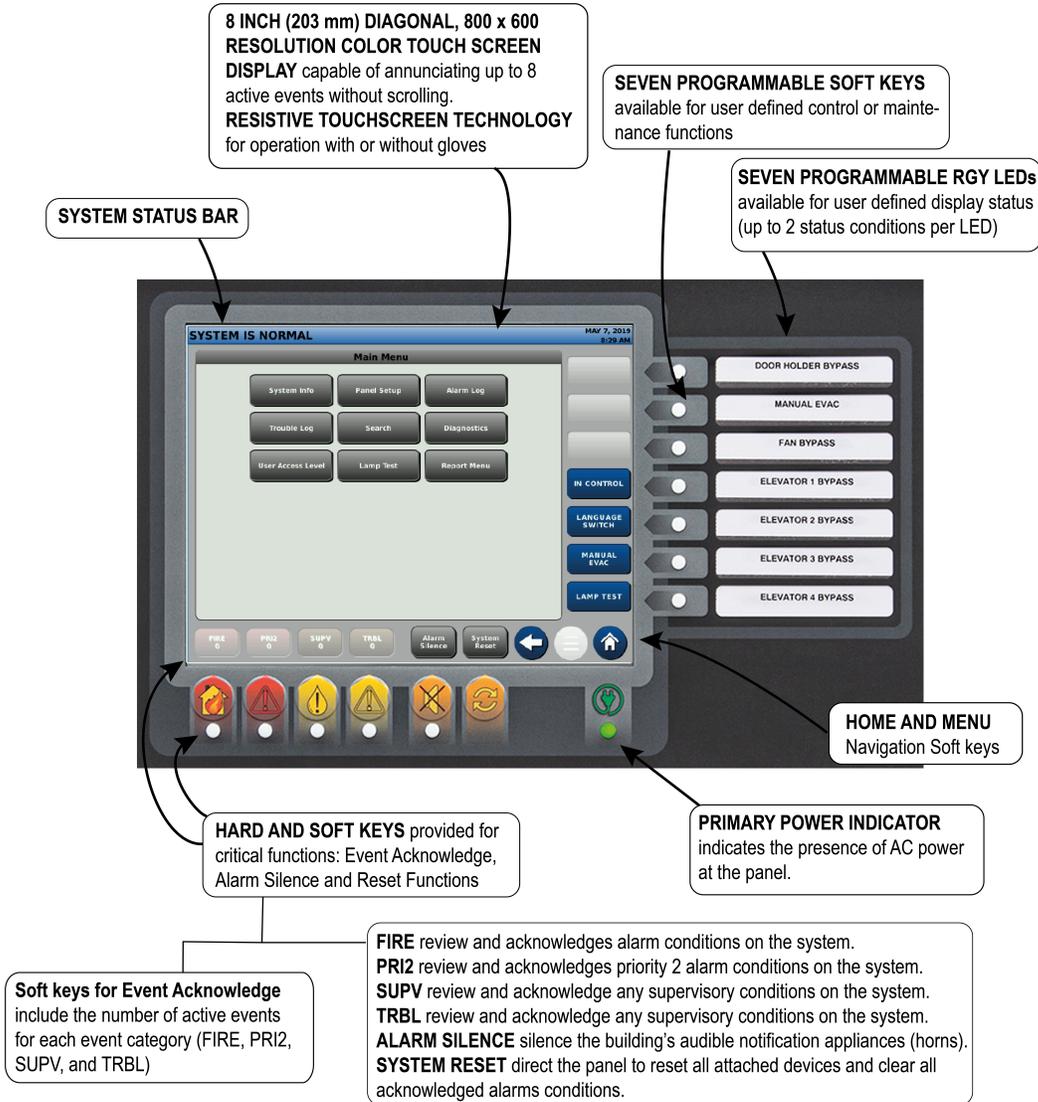


Figure 8: ES Touch Screen Display Operator Interface

## Features

### ES Touch Screen Displays provide customized operating experience

- Event activity display choices include: First 8 Events; or First 7 Events with emphasis on Most Recent; or First 6 Events with emphasis on First and Most Recent (individually selectable for each event type)
- System reports are easily viewable; logs can be read with minimal scrolling
- Up to two languages are available per system, easily selected by programmable key press
- Information sent to ES Touch Screen Displays can be vectored by point or zone
- Both Hard and Soft keys available for critical functions: Event Acknowledge, Alarm Silence, and Reset Functions
- Resistive touchscreen technology allows operation with or without gloves
- Seven programmable RGY LEDs available for user-defined display status (up to 2 status conditions per LED)
- Seven programmable Soft keys available for user-defined control or maintenance functions
- PRI2 Soft key label can be changed to CO when dedicated to annunciate Carbon Monoxide detection status
- ES Touch Screen Display can be programmed to report individual points or groups of points as a single zone
- Supports ability to display a custom watermark background file to display a company logo or other desired display content

**ES Touch Screen Display Remote Assembly Front View**



Figure 9: Remote ES Touch Screen Display Front View

**Remote ES Touch Screen Display Mounting Reference for 4100-9404 and 4100-9405**

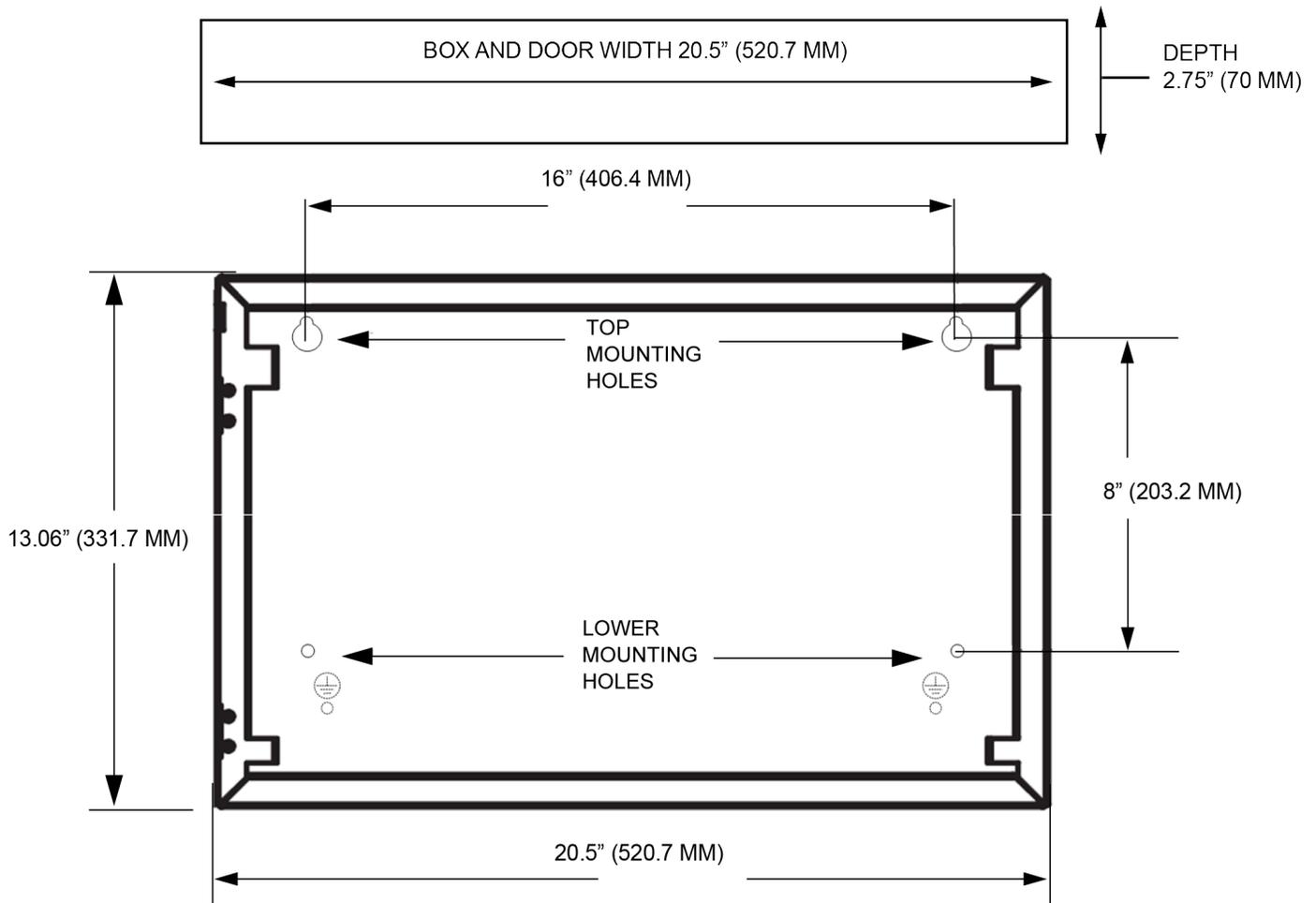


Figure 10: Remote ES Touch Screen Display Mounting Reference for 4100-9404 and 4100-9405

**Product Selection**

**Table 1: Remote Annunciators with ES Touch Screen Display**

Model	Compatible with	Description	Features	Listing
4100-9404	4100ES and 4010ES Fire Alarm Control Units	Remote ES Touch Screen Display - Red	<b>Remote ES Touch Screen with cabinet;</b> for surface mounting; includes mounting box and door assembly with glass insert; uses RUI, RUI+ or Ethernet communications; requires external 24VDC or 32 V (Power over Ethernet) power source; see Remote ES Touch Screen Display Assembly Installation Instructions 579-1323 for details	UL/ULC
4100-9405		Remote ES Touch Screen Display - Platinum		UL/ULC
4100-9616	4100ES Fire Alarm Control Unit Annunciator Cabinets (refer to data sheet <i>S4100-1039</i> for additional details)	Remote Annunciator with ES Touch Screen Display	<b>Remote Annunciator includes;</b> ES Touch Screen Display, 4100ES Expansion Bay with PDI, Basic Transponder Interface Card; <b>power supply is specified separately when configured</b>	UL/ULC
4100-9617		Basic Remote Annunciator with ES Touch Screen Display	<b>Basic Remote Annunciator includes;</b> ES Touch Screen Display, 4100ES Expansion Bay with PDI, Transponder Interface Card; <b>power is supplied from host control panel</b>	UL/ULC

## Specifications

**Table 2: General Display Specifications**

Specification	Rating
Resolution	800 x 600 Pixels (RGB)
Size / Type	8 inch (203 mm) Diagonal / Color Touch Screen
Touch Screen Technology	Resistive
Event Display	Up to 8 Events without scrolling
Normal Screen Custom Watermark File Format	680 x 484 Pixels: BMP, JPG, TIFF, GIF or PNG file format

**Table 3: Environmental and Power Specifications for 4100-9404 and 4100-9405**

Specification	Details	
Voltage	24 V	32 V (Power over Ethernet)
Current Draw	160 mA normal standby (LCD dimmed)	130 mA normal standby Current draw (LCD dimmed)
	225 mA alarm	190 mA alarm
Operating Temperature	32°F to 120°F (0°C to 49°C)	
Operating Humidity	Up to 93% (non-condensing) relative humidity at 90°F (32°C)	

## Wiring Requirements

**Table 4: RUI Communications Wiring Requirements**

RUI Communications	
Recommended Wire	Unshielded twisted pair (UTP), 18 AWG (0.82 mm <sup>2</sup> )
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)
Resistance and Capacitance Specifications	0.58 μF (580 nF) maximum capacitance between conductors; 35 ohms maximum total line resistance

**Table 5: Ethernet Communications Wiring Requirements**

Ethernet Communications	
Recommended Wire	Category 5 unshielded Ethernet cable (or better)
Class B Wiring Distance (T-Taps not allowed)	323.08 ft (100 m) maximum

**Table 6: 24 VDC Power Connections Wiring Requirements**

24 VDC Power Connections	
Recommended Wire	18 to 12 AWG (0.82 mm <sup>2</sup> to 3.31 mm <sup>2</sup> ) conductors

**Table 7: Earth Ground Wiring Requirements**

Earth Ground
A dedicated earth ground connection to the electrical box is required for proper ESD and EMI protection; wire in accordance with NFPA 70 ( <i>National Electrical Code</i> ) Article 250.