

# EST4 LCD

## Display Module

4-LCD Series

### Overview

EST4's LCD large color touch-screen display is the window into system operation and maintenance functions. It is large enough to support a graphical tree view of the system. The tree closely matches the system's physical layout, so there's no need for look-up tables to find specific devices. This is invaluable to technicians and building service personnel who can pinpoint the location of an off-normal device with a glance at the on-screen tree.

The EST4 LCD screen will display eight events without scrolling. In addition to touch-screen capability, the display assembly includes four dedicated easy-access rubber buttons for main control functions.

On the display, device events automatically sort into classification queues with event counts for easy identification and response. When new events are present that have yet to be reviewed, each queue is highlighted with a visual marking.

### Standard Features

- **Large Easy-to-Read Display Area**  
Displays eight events, 768 10-point characters.
- **Full Color for Detail-rich User Experience**  
262,144 colors with support for custom wallpaper.
- **Displays System Tree View on One Screen Page**  
Quick drill-downs to find devices, no look-up tables required.
- **Context-sensitive User Interface**  
One sign-in determines user privileges and available devices.
- **Color-coded Event Queue, History Log, Status Report**  
At-a-glance identification of priorities.
- **User Configurable Image Display**  
Displays a customized image that appears on the LCD's home screen when no active events are present.



## Control and Display Functions 1

The EST4 LCD display simplifies the user interface. Up front and at the top of the display are four easy-to-read and understand status lights. 2

### 1 Alarm LED 3

The Alarm LED serves as a common alarm event indicator. The LED illuminates when there is an Alarm type event on the system. The specific Alarm event displays in its queue on the LCD where a count of alarm events is displayed along with a visual indicator if there are new events that have not been viewed. 4

### 2 Trouble LED 5

This LED serves as a common trouble event indicator. The LED illuminates when there are events in the trouble event queue located on the LCD display. The trouble event queue provides a count of trouble events and highlights if there are new events that have not been viewed (local systems operation) or acknowledged (proprietary systems operation).

### 3 CPU Fail LED 7

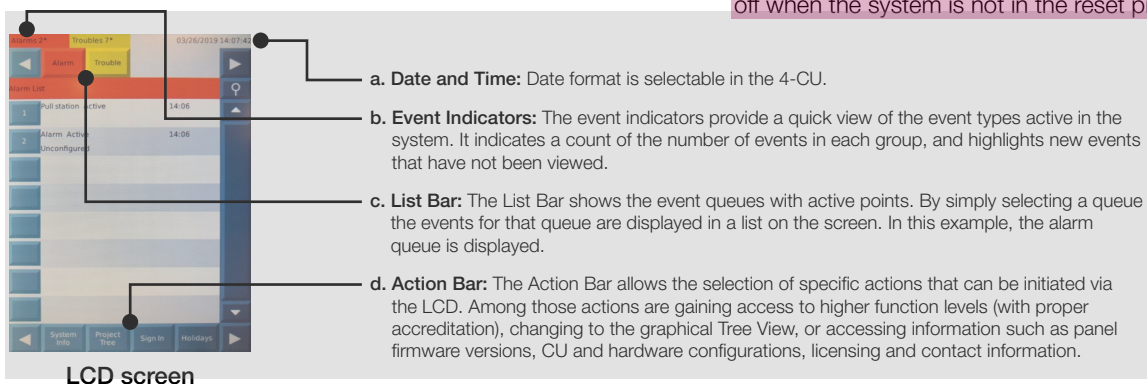
The LED indicates that the CPU has detected a processor failure. Processor failures must be reset manually using the Reset button. 8

### 4 Power LED 9

The LED indicates the power status. The LED operation is selectable in the panel configuration utility and supports local power display requirements including: On if there is primary or standby power present; On when primary power present, off during primary power loss; On when the panel has primary power and standby power, off if either standby or primary power are absent.

### 5 LCD screen 12

The heart of the 4-LCD is the color Liquid Crystal Display located in the center of the module. In the System Normal condition the date and time plus system wallpaper image are displayed on the LCD. 13



## Control Buttons 14

Four easy to find rubber buttons are located at the bottom of the display. These provide simple-to-understand common control functions. The switch design gives tactile feedback when operated, but EST4 offers additional user feedback by also providing a visual indication of switch activation through the associated LED. When a switch is activated the LED beside the switch will illuminate in a contrasting color. This gives a visual indication that the system has seen the switch push. The LED will change to its programmed color when the switch command has been executed. 15

The versatility of EST4 allows system designers to define the features affecting particular areas of a building. These are known as Notification Control Areas (NCAs), which are defined areas of an installation. A network may have several NCAs. This feature is very useful when configuring systems with multiple buildings on one network. For example, operating the Reset function in one building may have an adverse effect in other buildings. As a solution to this, audio paging may be programmed to affect the defined NCA and no other NCAs. This means that with EST4, having operational differences between buildings on the same network is not a problem. This feature can save wiring and reduce inter panel overhead. 16

### 6 Panel Silence button and LED 17

The factory default for this programmable button and LED indicator is Panel Silence. Pressing Panel Silence turns off the system's internal audible signal. The switch indicator has two statuses: white when the switch is pressed, yellow on when panel silence is active. 18

### 7 Fire Drill button and LED 19

The factory default for this programmable button and LED indicator is Fire Drill. Pressing Fire Drill turns on the drill LED and all signals sound evacuation. Drill does not activate city tie connections. Auxiliary relays will not activate unless programmed to do so with drill. 20

### 8 Alarm Silence button and LED 21

The factory default for this programmable button and LED indicator is Alarm Silence. Pressing Alarm Silence turns off all Notification Appliance Circuits defined as audible. The switch indicator has two statuses: white when the switch is pressed, yellow when silence is active via the Alarm Silence switch or via alarm silence software timers. 22

### 9 Reset button and LED 23

The factory default for this programmable button and LED indicator is Reset. Pressing Reset starts the system's reset operation. The switch indicator has four statuses: white when the switch is pressed; fast flashing green during the smoke power down phase of reset; slow flashing green during the restart phase; and, on steady green during the restoral phase. The Reset LED is off when the system is not in the reset process. 24

## Technical Specifications <sup>1</sup>

	4-LCD	4-3 LCD
Rail Spaces	Two inner door spaces	Two user interfaces spaces.
Mounting	Mounts on inner door	Mounts on UI layer above 4-CPU
Current		
Standby	40 mA at 24 Vdc	
Alarm/active	93 mA at 24 Vdc	
Display	18 bit color. 640 x 480 pixels, resistive touch screen	
System status indicators		
ALARM	Red indicator	
TROUBLE	Yellow indicator	
CPU FAIL	Yellow indicator	
POWER ON	Green indicator	
Common controls and indicators [1]		
PANEL SILENCE button	Yellow indicator integrated with the Panel Silence button	
FIRE DRILL button	Yellow indicator integrated with the Fire Drill button	
ALARM SILENCE button	Yellow indicator integrated with the Alarm Silence button	
RESET button	Green indicator integrated with the Reset button	
Operating environment Temperature	32 to 120°F (0 to 49°C)	
Relative humidity	0 to 93% noncondensing	
Custom Background Image	Size: 480 x 640 pixels or greater with as aspect ratio of 3:4 (e.g., 600 x 800, 768 x 1024, or 960 x 1280)	
	Resolution: 141 dpi or greater	
	Color depth: 18-bit color or greater (24-bit is RGB; 32-bit is CMYK)	
	Format: JPG, JPEG, or PNG	

[1] Factory default for the common controls and indicators are listed here. These common controls can be reprogrammed using the Configuration Utility (4-CU). The associated indicators can also be reprogrammed as red, green, yellow, blue or white colors.

## Ordering Information <sup>4</sup>

Model # (SKU)	Description	Shipping Weight
4-LCD	Main color touchscreen LCD display	1.25lb (0.57kg)
4-LCDANN	4-LCD w/ cable for Annunciator enclosure 4-4ANN, 4-6ANN mounting	1.9lb (0.85kg)
4-LCDLE	4-LCD w/ cable for 3-CAB5B, 7B, 14B, 21B, 4-8ANN, 16ANN and 24ANN mounting	1.9lb (0.85kg)
4-3LCD	LCD display for use in EST3 panels, allows reuse of EST3 UI layer in retrofit applications. The 4-3LCD can be mounted in remote closet cabinets where an LCD display is needed. The display mounts on the 4-CPU module.	1.5lb (0.66kg)
<b>Accessories and related equipment</b>		
4-CABL0502	Service replacement cable, 4-LCD to 4-CPU flex interconnect cable for CAB5, 7, 14, 21.	0.38lb (0.17kg)
4-CABL0504	Service replacement cable 4-LCD to 4-ANNCPU cable for use in 4-2ANN, 4ANN, 6ANN annunciator configuration.	0.37lb (0.17kg)
4-CABL0541	Service replacement cable 4-3LCD to 4-CPU cable for use in 3-CAB5B, 7B, 14B, 21B, RCC series.	0.1lb (0.04kg)
4-CABL0505	Cable, Door Rail to Rail, 13 Inch for 4-CAB16D(R), 4-CAB24D(R), or 4-CAB24D(R)L.	0.5lb (0.23kg)
4-CABL0507	Cable, Door Rail to Rail, 11.3 Inch for 4-CAB8D(R).	0.5lb (0.23kg)
4-CABL0542	Cable, for use with 4-CPU or 4-ANNCPU where no LCD is installed on Inner Door.	0.6lb (0.26kg)