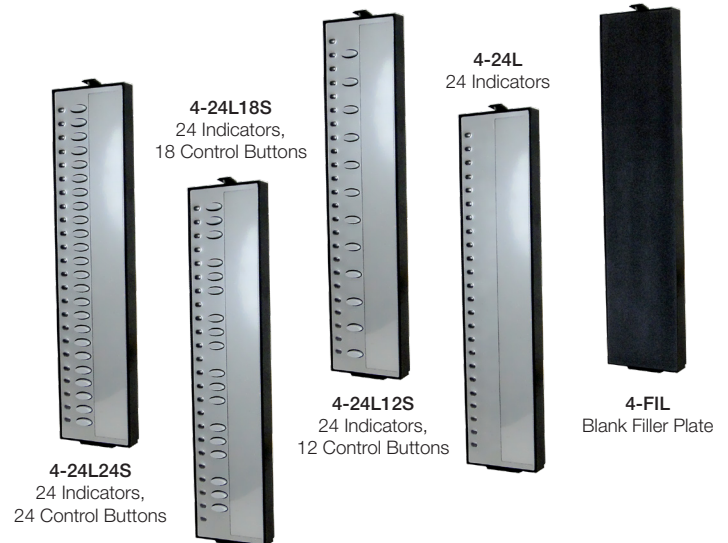


EST4 Control Display Modules

4-24L Series



Overview

EST4 Control-Display Modules provide first responders and emergency users with easy-to-operate controls and at-a-glance indication when time is of the essence and event information is critical.

Control-Display Modules come with 24 LED indicators and are available with 0, 12, 18, or 24 control buttons. LED indicators are actually comprised of five individual LEDs, each of a different color. Programmers configure indicators to display their pre-selected color according to the type of information conveyed by the indicator. This offers a level of design efficiency that can reduce the number of display strips necessary for an application. In addition to color selection, the flash rate of the LED may be programmed to provide even more information. Examples include: damper and fan status, or audio zone notification status, alert, evaluation or paging.

Control display modules simply snap into place on the inner door of control panels or annunciators, and can mount in any unused display location. They can be positioned according to use, and spaced to create a physical separation between different control functions.

Control modules feature large and easy-to-see buttons. They provide tactile feedback when pressed, and visual feedback by means of the associated indicator, which flashes briefly when the button is activated.

Printable slide-in label inserts give control-display modules context with color-coded shading and other effects. They can be localized for regional language requirements, and printed on-the-fly to accommodate system changes as they are implemented.

Up to 576 tactile switches and 576 indicators may be mounted in a single EST4 cabinet. Module lamp test can be programmed to any spare control display switch, or by selecting the Lamp Test feature from the LCD display.

Standard Features

- **Modules Mount on Inner Door of Cabinet**
Simple snap-in modules speed installation, provides a clean look.
- **Rubber Buttons for Switch Control**
Provides durability with great tactile feedback of switch operation.
- **Selectable LED Colors**
Minimizes the inventory needed to support operations.
- **Slide-in Customizable Labeling**
Print color-coded and regional languages from the Configuration Utility.
- **Stable Frame Assembly**
Ensures positive switch operation.
- **Switch Radio Groups**
Allows up to 24 switches in a group.
- **Synchronized Indicator Flash Rates Across Network**
Consistent indication between nodes.
- **Visual Feedback of Switch Activation**
Visual feedback of a switch press by status LED color change.

Application

Life Safety Systems require only occasional operation. Yet, in an emergency the user must be able to identify system operation and status quickly and without hesitation. LCD screen displays are excellent for identifying specific information, but even a large LCD display cannot convey overall system status as effectively as individual LEDs and switches.

Simple design, sophisticated operation

EST4 control-display modules are designed to provide simple identification and operation of system functions for the emergency user. They offer positive feedback of control activity with flexibility for selection of display configurations and mounting location options. This configuration flexibility means that there are fewer models needed to cover a wide array of applications. In fact, just four models handle all the control and display options needed for EST4 operation.

At each indicator location, display modules have five individual LEDs: red, yellow, blue, green and white. At configuration time the system designer matches the color of the LED to the needs of the system design. This allows maximum use of indicator and switch locations on each module, making it unnecessary to skip or leave indicator spaces blank because the color is wrong for the application.

Multi-use modules increase efficiency

Flexible multi-use design allows the same control-display model to be used for several different applications. For example, the 24-indicator 4-24L may be used for displaying zone annunciation, or zone annunciation with disable indicator, or zone annunciation with trouble, or a combination of all three.

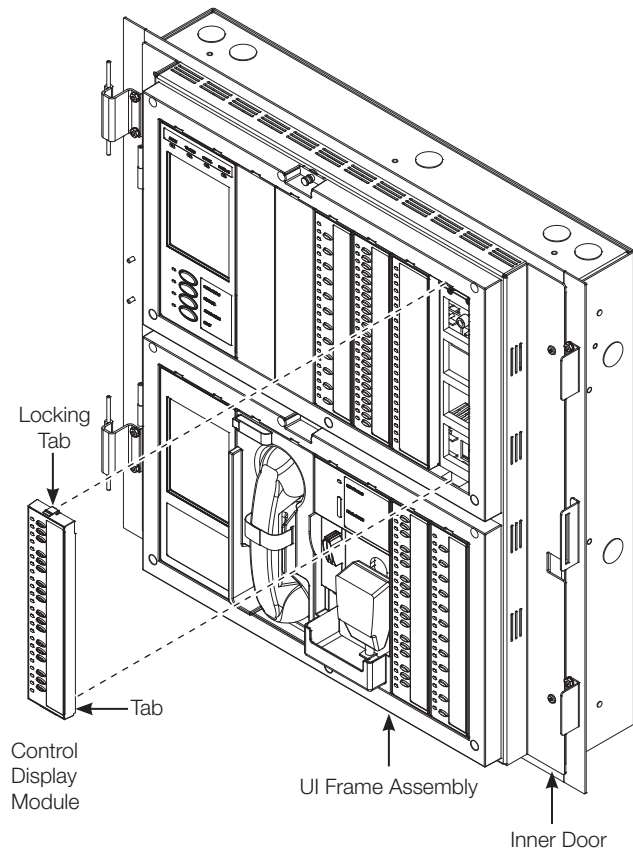
Switches can also work independently, or they can be grouped into a latching-interlock to support operations that must be kept separated, such as fan and damper control. The interlock is controlled by software, so only one switch is active at a given time. EST4 offers further flexibility by supporting the interlock of not just two or three switches in a group, but the interlock of any combination – right up to the full module complement of 24 switches.

Radio switch groups are also an option with EST4 control modules, as are On-Off-Auto configurations, and a variety of HVAC and building control system operations. In fact, the EST4 command and control interface is much more than the sum of its constituent parts, and its design flexibility is sure to inspire new and creative ways to make buildings safer.

Engineering Specification

The Life Safety system shall incorporate annunciation of Alarm, Supervisory, Trouble and Monitor operations. Annunciation must be through the use of LED display strips, complete with a means to custom label each LED/Switch position as to its function. The labels must support the ability to allow visual custom grouping of LEDs and switches. Where applicable, control of remote smoke control devices must be made available at the control center. Switches with LEDs must provide positive feedback to the operator of remote equipment status. All individual indicator LEDs shall be configurable for color including Red, Yellow, Blue, Green or White to facilitate identification from a distance and maximize display location usage. Where voice audio is required, a means of paging individual zones must be available. The status of each paging zone must be annunciated. It must be possible to selectively page into specific zones. It shall be possible to manipulate the evacuation of the building from the main control center. It must be possible for the emergency operator to put specific zones into evacuation manually. When being serviced or when it is necessary to disable switches, the system shall not 'remember' if a disabled switch is pressed. Switches must be rubber to provide tactile feedback as well as a visual indication when a switch is activated.

Installation



Technical Specifications

	4-24L	4-24L12S	4-24L18S	4-24L24S
Indicators	24	24	24	24
Switches	0	12	18	24

Current

Standby	4.0 mA at 24 VDC
Alarm	10.0 mA at 24 VDC

Mounting

Display modules mount on the inner door of the following door assemblies:
4-CAB8D, 4-CAB16D, 4-CAB24D, 4-CAB24DL,
4-4ANND, and 4-6ANND

Operating environment

Temperature: 32 to 120°F (0 to 49°C).
Relative humidity: 0 to 93% noncondensing.

Agency Listings

UL, ULC, FM, CSFM, CE and NYC Fire Dept.

Agency approvals: UL864 10th edition - UOJZ, UUKL, SYZV, UOQY, UL2017 2nd edition - FSZI, UL2572 2nd edition - PGWM; ULC-S527-11 3rd edition - UOJZ, UULK7, SYXV7, ULC-S576-14 1st edition - PGWM7, ULCS-S559-13 2nd edition - DYP7

Note 1: Unless otherwise specified, all SKUs may be used in EN54/UL/ULC applications.

Ordering Information

Model # (SKU)	Description	Shipping Weight
4-24L	24 Indicator Display Module	0.6lb (0.27kg)
4-24L-E	24 Indicator Display Module, EN54 compliant model	0.6lb (0.27kg)
4-24L12S	24 Indicator 12 Control Display Module	0.65lb (0.29kg)
4-24L12S-E	24 Indicator 12 Control Display Module, EN54 compliant model	0.65lb (0.29kg)
4-24L18S	24 Indicator 18 Control Display Module	0.65lb (0.29kg)
4-24L18S-E	24 Indicator 18 Control Display Module, EN54 compliant model	0.65lb (0.29kg)
4-24L24S	24 Indicator 24 Control Display Module	0.65lb (0.29kg)
4-24L24S-E	24 Indicator 24 Control Display Module, EN54 compliant model	0.65lb (0.29kg)
4-FIL	Blank Filler Plate	0.1lb (0.04kg)



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