

Features

Compatible with Simplex ES Net or 4120 Fire Alarm Networks

Multi-line expanded content display interface for Simplex 4100ES Series fire alarm control panels, available with the following products:

- Fire alarm control panels (stand-alone or networked) including Redundant CPU options (Software Revision 12 or higher is required)
- Network Display Units (NDU) with support for up to 12,000 points
- Remote Annunciator panels and models that mount in a dedicated cabinet (4100ES and 4100U control panels support Remote InfoAlarm Command Centers independent of host panel display type)
- Upgrade kits are available for legacy 4100 (1000 pt, 4100+ systems) and 4100ES and 4100U standard panels
- UL listed to Standard 864

InfoAlarm Command Centers provide customized operating convenience:

- "Activity in System" primary display choices include: First and Most Recent, First 5 and Most Recent, First 8, Site Plan with activity status icons, General Alarm, or Direct to List; selectable individually by event type
- System reports are easily viewed; logs can be read with minimal scrolling required
- Up to six "softkeys" per screen provide functions that vary with the particular screen information aiding operators to determine how to proceed
- Up to two languages are available per system, easily selected by programmable key press (systems with IMS/GCC/NPU or 2 x 40 LCD panels or annunciators require one language to be the default font)
- International models allow customized language legends for operator keys and status LEDs
- Information sent to Remote InfoAlarm Command Centers can be vectored by point

Display properties:

- 320 x 240 dot matrix (QVGA) display provides an active area of 4.53 in. W x 3.4 in. H (115 mm x 86 mm) displaying up to 854 characters using standard ASCII character font
- Bright white LED backlighting provides efficient and long lasting illumination; operation is selectable as continuous or off with power fail or with no key presses

Introduction

InfoAlarm Command Center Control Panel LCD interface requires minimal key presses to access detailed information. By using a larger area format instead of an individual text line display, the LCD provides text information for Alarm, Supervisory, or Trouble. The format can be customized per application allowing additional information to be presented to suit the specific application.

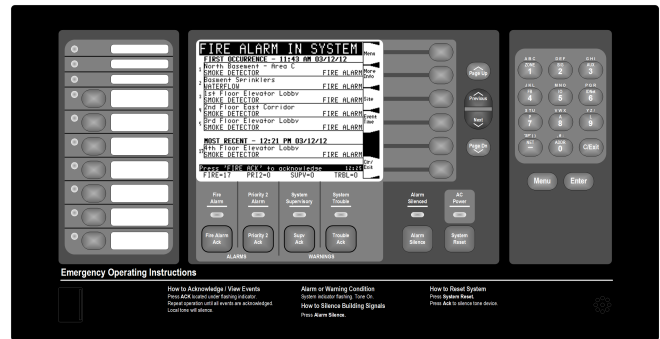


Figure 1: InfoAlarm Command Center for Control Panel Mounting



Figure 2: InfoAlarm Command Center in Remote Cabinet

Description

InfoAlarm Command Centers for 4100ES fire alarm systems provide a large display with extended information content, dual language support including 2 byte character languages, and an intuitive control key interface per the following:

- Up to 10 InfoAlarm Command Centers are supported per 4100ES/4100U control panel; able to allow one InfoAlarm Command Center to take-control and to designate access levels for interfaces not in-control; LEDs can be programmed for in-control status indications
- Menu-driven format conveniently prompts operators for the next action required
- Key controls are provided to select the highlighted entry, load next screen of information, or jump to top or bottom of activity lists
- Direct point callup displays individual points alphabetically and then homes in on the logical choice as more point information is entered
- A Site Plan bitmap can be displayed for reference; icons can be added to indicate system status
- Up to 50 custom point detail messages can be generated
- 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 gray scale bitmap (watermark) for location name, company logo, or site plan

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

Site Plan with Event Icons

Site Plan Bitmap. The InfoAlarm Command Center supports a site plan monochrome bitmap image (size is 281 pixels wide by 192 pixels high) that can also display icons indicating activity and location. Shown to the right is a sample site plan with icons shown in each building area. For this example, each area is showing an "A" for an initiating device in alarm, a "WF" for waterflow occurring, and an icon indicating notification appliances in alarm. (Icons can be created for site specific symbology, these are for example only.)

Site Plan Selection and Detail. If desired, the site plan can be the primary display screen for system activity or can be for reference, available by selecting the "Site" softkey. Depending on the facility layout, the site plan can also be a convenient location for common reference information such as primary call phone numbers, street address, etc. to assist operators in their assigned response.

System Normal Screen. The site plan (or another bitmap image) can be displayed on the System Normal screen as a grey image watermark behind the screen text. (Size and type are the same as that for a site plan bitmap). This can be used to identify the specific location of the 4100ES or can display a site-specific logo or other information.

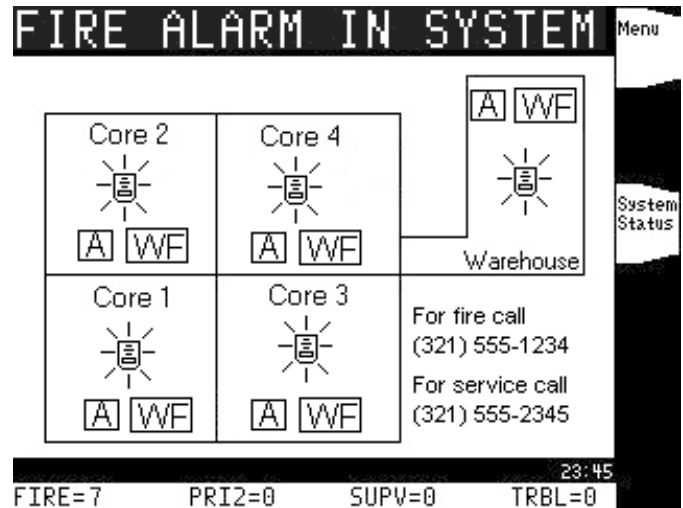


Figure 3: Site Plan

Information Review

The Trouble Log History screen shown to the right identifies the ability to view multiple event entries with minimal scrolling. For specific information access, pressing "Next" or "Previous" on the keypad highlights the selected next or previous item in the list as indicated by the arrow and the bolded first line of Entry 6 (See Figure 4).

For access to the next or previous full screen of information, use the Page Dn or Page Up keys located to the right of the soft keys, each to the right of the display.

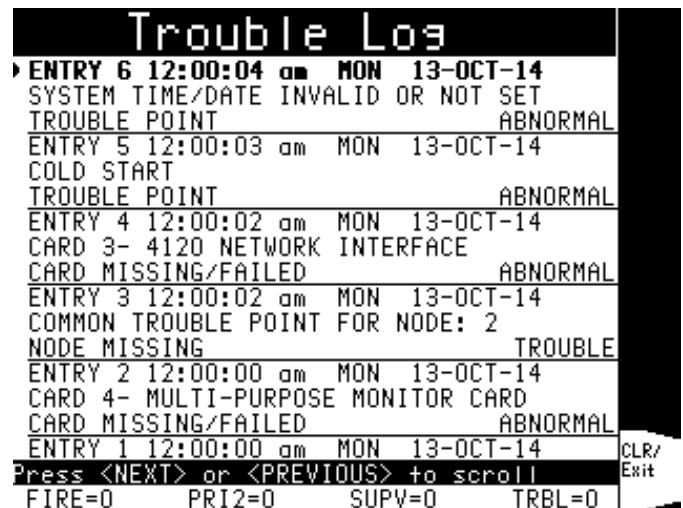


Figure 4: Trouble Log

Customized Emphasis

The Main Menu screen illustration to the left demonstrates how print/display statements appear for status information or for prompting of user input. Other examples of this format occur when setting time and date, entering a password, or identification of a status change such as point enabling or disabling. Use of this feature allows the display to clearly focus the user on required information or actions.

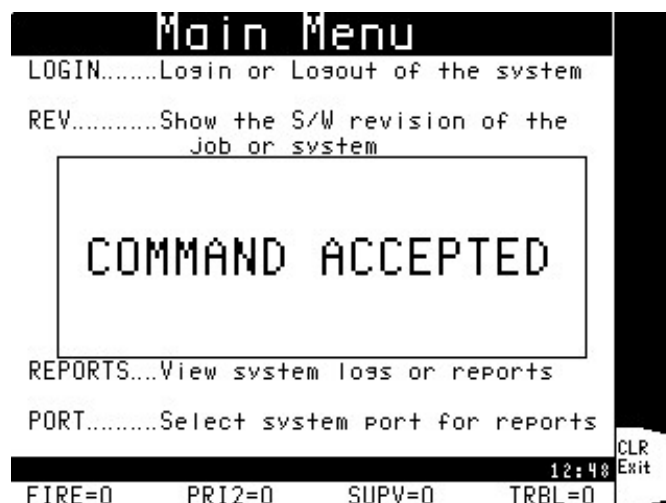


Figure 5: Main Menu

Additional Primary Display Screens

Below are samples of a First and Most Recent primary display and of a General Alarm display.

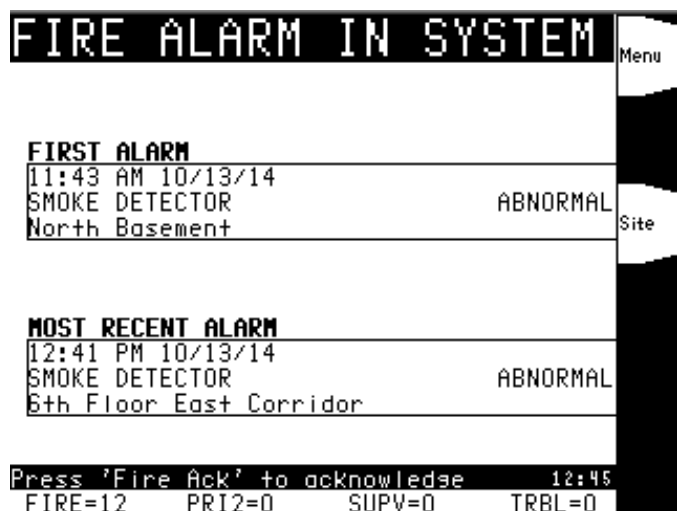


Figure 6: First and Most Recent Primary Display Option



Figure 7: General Alarm Primary Display Option

Control Panel Operation Reference

Note: Refer to Figure 10 for international control panel reference information. Detailed operator instructions are on document 579-685.

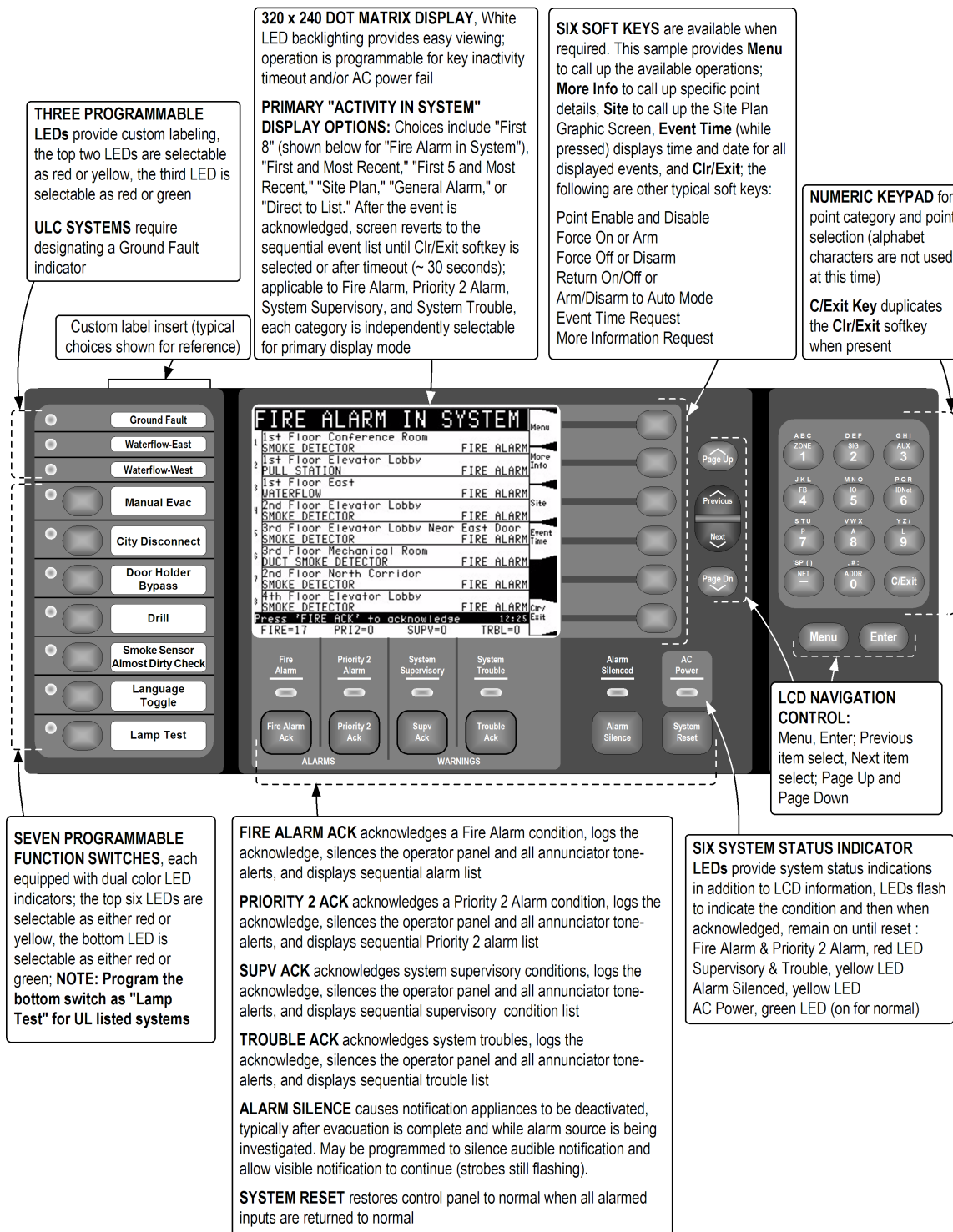


Figure 8: Control Panel Operation Reference

Display Feature Reference

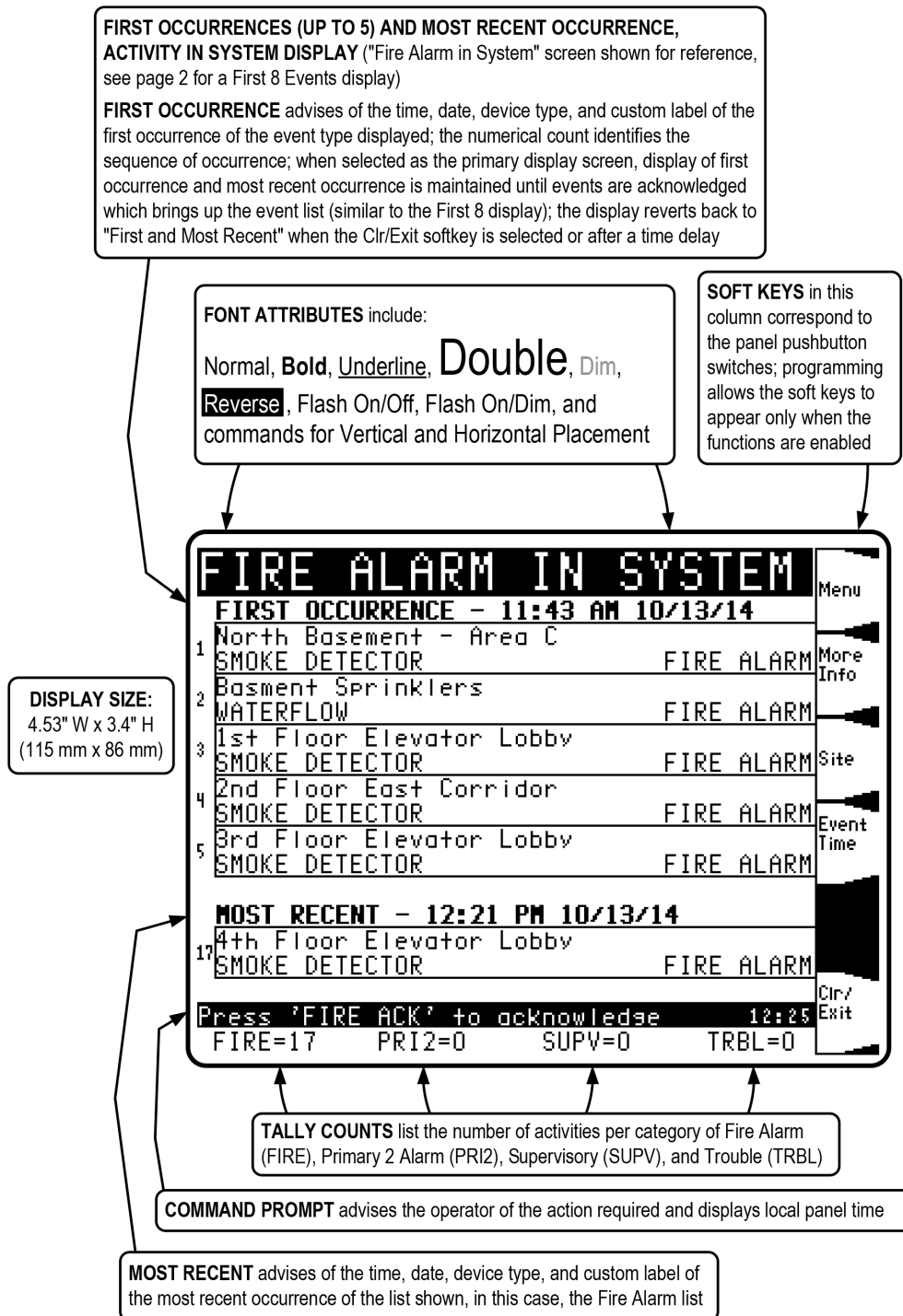


Figure 9: Display Feature Reference

International Display Details

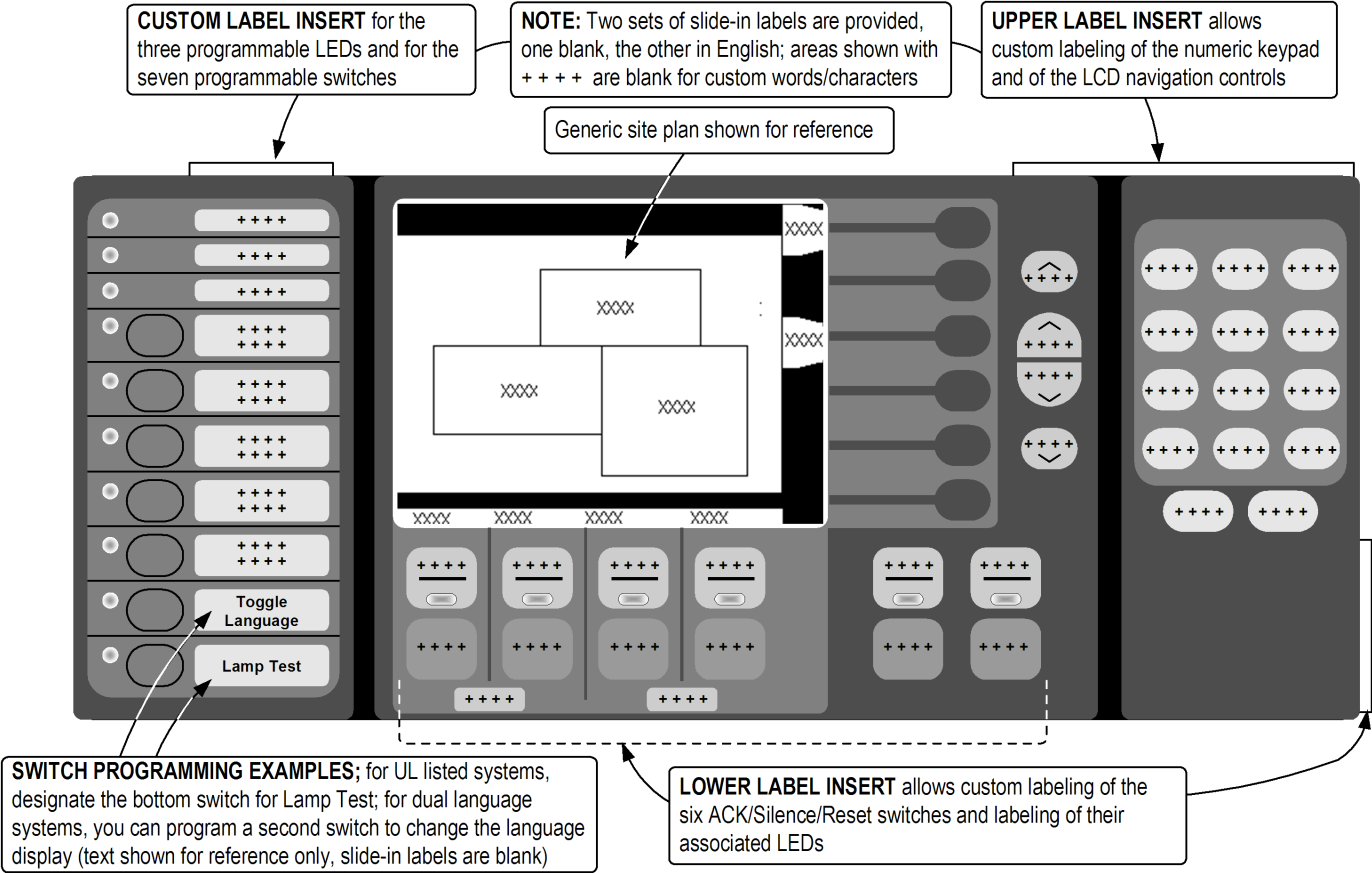


Figure 10: International Display Details

Remote InfoAlarm Command Center Front View



Figure 11: Remote InfoAlarm Command Center Front View

Remote InfoAlarm Command Center Mounting Reference

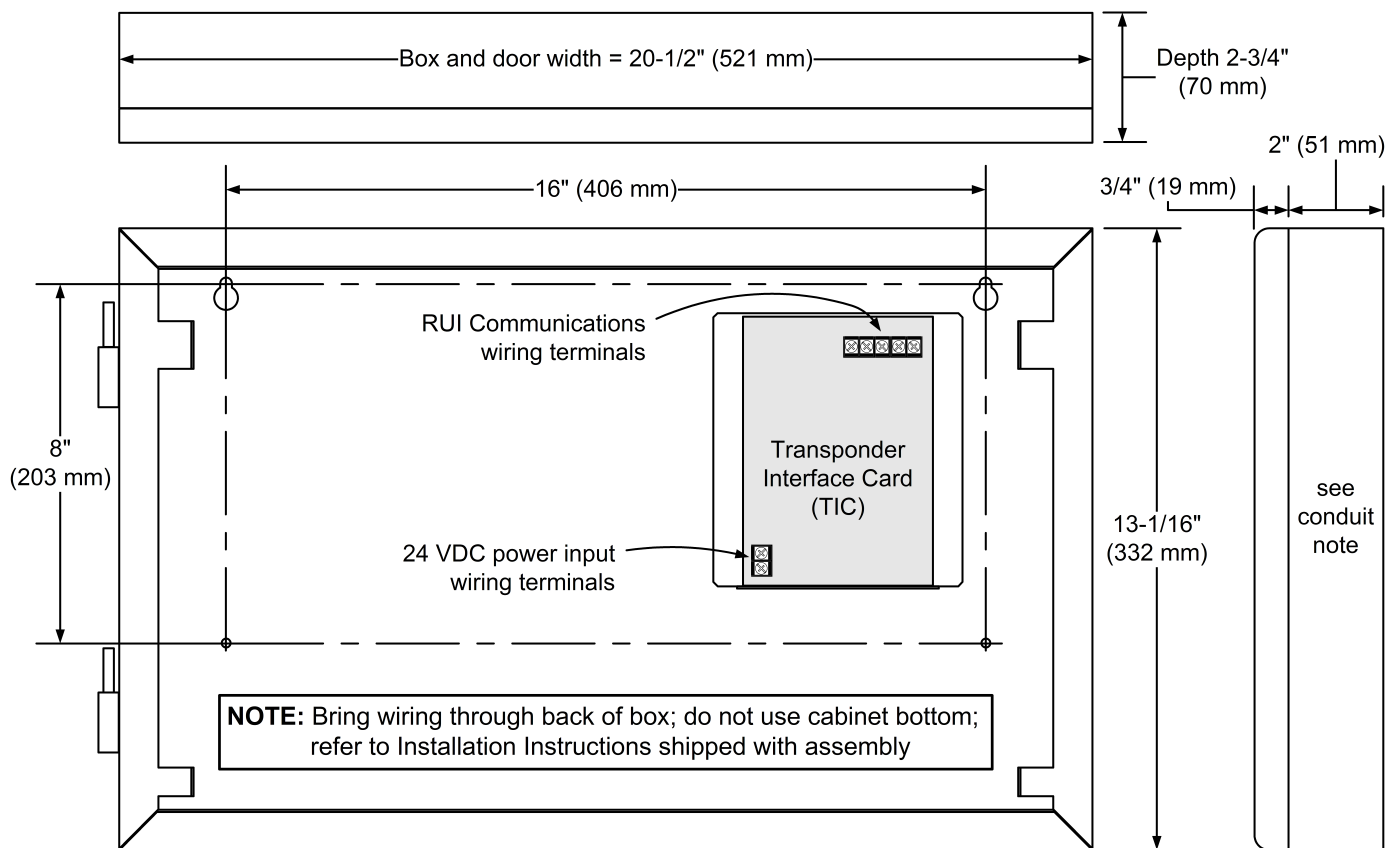


Figure 12: Remote InfoAlarm Command Center Mounting Reference

Product Selection

See data sheet S4100-1031 for descriptions of the 4100ES Basic Control Panel details, standard product features, options, and reference for related fire alarm control panel products.

Table 1: 4100ES Master Controller with InfoAlarm Command Center

Model	InfoAlarm Command Center Type	Listings	Master Controller Features	Supv.	Alarm
4100-9703	InfoAlarm Master Controller with English fixed labeled raised keys	UL/ULC	InfoAlarm Display, CPU Card, IDNet 2 Card supports up to 250 addressable/analog points, ES Power Supply (120 V to 240 V 50/60Hz, 24 V Aux. Relay, 24 V Aux. Power Tap/ Simple NAC, 110 Ah Battery Charger), and external RUI+ (isolated or un-isolated) communications interface	349 mA	391 mA
4100-9704	InfoAlarm Master Controller with Canadian French fixed labeled raised keys	ULC			
4100-9705	InfoAlarm Master Controller with slide-in labels and flat keys	UL/ULC			

Table 2: 4120 Network Display Unit (NDU) and Voice Command Center (VCC) Master Controllers with InfoAlarm Command Center (NOTE: See data sheet S4100-1036 for NDU feature details and for details on ratings for NDU with VCC)

Model	NDU Type	Listings	Master Controller Features	Supv.	Alarm
4100-9722	4120 NDU (Standard, Non-Voice); with English fixed labeled raised keys	UL/ULC	NDU Master Controller Bay with InfoAlarm Display, CPU Card, 4120 Network Interface Card, ES Power Supply (120 V to 240 V 50/60 Hz, 24 V Aux. Relay, 24 V Aux. Power Tap, 110 Ah Battery Charger), and external RUI+ (isolated or un-isolated) communications interface	430 mA	472 mA
4100-9723	4120 NDU (Standard, Non-Voice); with Canadian French fixed labeled raised keys	ULC			
4100-9724	4120 NDU (Standard, Non-Voice); with slide-in labels and flat keys	UL/ULC			

Table 2: 4120 Network Display Unit (NDU) and Voice Command Center (VCC) Master Controllers with InfoAlarm Command Center (NOTE: See data sheet S4100-1036 for NDU feature details and for details on ratings for NDU with VCC)

Model	NDU Type	Listings	Master Controller Features	Supv.	Alarm
4100-9732	4120 NDU and Voice Command Center; with English fixed labeled raised keys	UL/ULC	NDU Master Controller Bay with InfoAlarm Display, CPU Card, 4120 Network Interface Card, ES Power Supply (120 V to 240 V 50/60 Hz, 24 V Aux. Relay, 24 V Aux. Power Tap, 110 Ah Battery Charger), and external RUI+ (isolated and un-isolated) communications interface	708 mA	759 mA
4100-9733	4120 NDU and Voice Command Center; with Canadian French fixed labeled raised keys	ULC	VCC Master Controller Bay with CPU Card, 4120 Network Interface Card, IDNet 2 Card supports up to 250 addressable/analog points, ES Power Supply (120 V to 240 V 50/60 Hz, 24 V Aux. Relay, 24 V Aux. Power Tap, 110 Ah Battery Charger), and external RUI+ (isolated and un-isolated) communications interface		
4100-9734	4120 NDU and Voice Command Center; with slide-in labels and flat keys	UL/ULC			

Table 3: ES Net Network Display Unit (NDU) and Voice Command Center (VCC) Master Controllers with InfoAlarm Command Center (NOTE: See data sheet S4100-1077 for NDU feature details and for details on ratings for NDU with VCC)

Model	NDU Type	Listings	Master Controller Features	Supv.	Alarm
4100-9752	ES Net NDU (Standard, Non-Voice); English InfoAlarm Display with raised keys	UL/ULC	NDU Master Controller Bay English InfoAlarm Display with raised keys, CPU Card, ES Network Interface Card, ES Power Supply (120 V to 240 V 50/60 Hz, 24 V Aux. Relay, 24 V Aux. Power Tap, 110 Ah Battery Charger), and external RUI+ (isolated or un-isolated) communications interface	469 mA	511 mA
4100-9753	ES Net NDU (Standard, Non-Voice); Canadian French InfoAlarm Display with raised keys	ULC	Same as 4100-9752 except with Canadian French InfoAlarm user interface		
4100-9754	ES Net NDU (Standard, Non-Voice); with slide-in labels and flat keys	UL/ULC	Same as 4100-9752 except with InfoAlarm user interface with flat keys and slide in labels		
4100-9762	ES Net NDU Master Controller Bay and Voice Command Center; English InfoAlarm Display with raised keys	UL/ULC	NDU Master Controller Bay with InfoAlarm Display with raised keys, CPU Card, ES Network Interface Card, ES Power Supply (120 V to 240 V 50/60 Hz, 24 V Aux. Relay, 24 V Aux. Power Tap, 110 Ah Battery Charger), and external RUI+ (isolated or un-isolated) communications interface VCC Master Controller Bay with CPU Card, ES Network Interface Card, IDNet 2 Card supports up to 250 addressable/analog points, ES Power Supply (120 V to 240 V 50/60 Hz, 24 V Aux. Relay, 24 V Aux. Power Tap, 110 Ah Battery Charger), and external RUI+ (isolated or un-isolated) communications interface	856 mA	907 mA
4100-9763	ES Net NDU Master Controller Bay and Voice Command Center; Canadian French InfoAlarm Display with raised keys	ULC	Same as 4100-9762 except with Canadian French user interface in NDU Master Controller Bay		
4100-9764	ES Net NDU Master Controller Bay and Voice Command Center; with slide-in labels and flat keys	UL/ULC	Same as 4100-9762 except with flat keys and slide in labels in NDU Master Controller Bay		

Table 4: Upgrade Kits (see NOTE for NDU upgrades; Upgrade kit are UL and ULC listed)

Model	SKU Type	Description	NOTE
4100-7153	English	Upgrade Kit for existing 4100ES or 4100U Series Fire Alarm Control Panels; includes complete bay front assembly with InfoAlarm Command Center providing raised keys with fixed labels; uses existing power supply and Master Controller Board (CPU card)	NDU upgrades require 4100-0640 Display Memory Expansion, see below for details
4100-7154	English	Upgrade Kit for existing 4100 (Legacy 1000 pt, 4100+ systems) Series Fire Alarm Control Panels (non-4100U); includes complete bay front assembly with InfoAlarm Command Center; raised keys with fixed labels, and replacement Master Controller Board; uses existing power supply	
4100-7155	International	Upgrade Kit for existing 4100ES or 4100U Series Fire Alarm Control Panels; includes complete bay front assembly with InfoAlarm Command Center providing flat keys with inserts for custom key labels; use for non-English language applications including French for Canada; uses existing power supply and Master Controller Board (CPU card)	
4100-7156	International	Upgrade Kit for existing 4100 (Legacy 1000 pt, 4100+ systems) Series Fire Alarm Control Panels (non-4100U); includes complete bay front assembly with InfoAlarm Command Center; flat keys with inserts for custom key labels, and replacement Master Controller Board; use for Canadian French applications; uses existing power supply	

Table 5: Remote Annunciator with InfoAlarm Command Center (see data sheet S4100-1038 for Remote Annunciator features)

Model	SKU Type	UL	ULC	InfoAlarm Command Center Type	Master Controller Features
4100-9612	English	Yes	Yes	With raised keys and fixed labels	Basic Remote Annunciator Includes Expansion Bay with PDI, Remote TIC module; power is supplied from host control panel
4100-9613	French	—	Yes	With raised keys and fixed labels	
4100-9614	International	Yes	—	With flat keys & inserts for custom key labels	
4100-9607	English	Yes	Yes	With raised keys and fixed labels	Remote Annunciator Includes Expansion Bay with PDI, Remote TIC module; power supply is specified separately when configured
4100-9608	French	—	Yes	With raised keys and fixed labels	
4100-9609	International	Yes	—	With flat keys & inserts for custom key labels	

Table 6: InfoAlarm Command Center Memory Option (may be required to be ordered separately, see description details)

Model	Description
4100-0640	Display Memory Expansion Module ; included with NDU systems; required for all InfoAlarm Command Centers connected to a panel if any are using 2 byte character fonts ; 6 Meg module mounts on rear of display board

Table 7: Remote InfoAlarm Command Center Control Assembly with Cabinet for Surface Mounting

SKU Number/Cabinet Color		Application Type	Listing	Description
Red	Platinum			
4100-9401	4100-9403	English	UL & ULC	Remote InfoAlarm Command Center with cabinet ; for surface mounting; includes mounting box and door assembly with glass insert; uses RUI or RUI+ communications; requires external 24 VDC system voltage; see Remote InfoAlarm Command Center Front View , Remote InfoAlarm Command Center Mounting Reference and Installation Instructions 579-687 for details
4100-9421	4100-9423	French/Canada	ULC	
4100-9441	4100-9443	International	UL	

Specifications

Table 8: General Display Specifications

Specification		Rating
Size Reference	Dot Matrix Size	320 x 240
	Active Display Area	4.53 in. W x 3.4 in. H (115 mm x 86 mm), includes header, footer, and softkey area; 5.66 in. diagonal measurement (144 mm)
	Characters	Up to 854 characters total using standard ASCII character font
	Designation	QVGA; one quarter of standard VGA (Video Graphics Array) display
Display Polarizer Type		Transflective with rear backlight
Display Adjustment		Contrast adjustment is located on the controller module
Backlight		White LEDs with intensity adjustment and selectable AC power fail operation; intensity adjustment is located on the controller module
Backlighting Operation Options		On continuously; Off with AC power fail until a switch is pushed; selectable timeout without switch activity

Table 9: Control Panel Mounted InfoAlarm Command Center Current Requirements

Specification		Rating		
Basic Master Controllers (4100-9703, 4100-9704, 4100-9705)	Supervisory	349 mA @ 24 VDC	Panel currents only are shown, add external device loading per system requirements	
	Alarm	391 mA @ 24 VDC; backlight and tone-alert on		
4120 Network Display Units, Non-Voice (4100-9722, 4100-9723, 4100-9724)	Supervisory	395 mA @ 24 VDC		
	Alarm	437 mA @ 24 VDC; backlight and tone-alert on		
4120 Network Display Units, Voice (4100-9732, 4100-9733, 4100-9734)	Supervisory	708 mA @ 24 VDC		
	Alarm	759 mA @ 24 VDC; backlight and tone-alert on		
ES Net Network Display Units, Non-Voice (4100-9752, 4100-9753, 4100-9754)	Supervisory	469 mA @ 24 VDC		
	Alarm	511 mA @ 24 VDC		
ES Net Network Display Units, Voice (4100-9762, 4100-9763, 4100-9764)	Supervisory	856 mA @ 24 VDC		
	Alarm	907 mA @ 24 VDC		
Upgrade Kits	4100-7153 & 4100-7155 for 4100U	add 82 mA supervisory; add 127 mA for alarm		Panel currents only are shown, add external device loading per system requirements
Upgrade Kits	4100-7154 & 4100-7156 for Legacy 4100+	add 235 mA supervisory; add 280 mA for alarm		Panel currents only are shown, add external device loading per system requirements

Table 10: Remote Annunciators with InfoAlarm Command Center, Powered from Control Panel

Specification		Rating
Voltage		19 to 33 VDC (24 VDC nominal), system supplied; requires separate wiring
Current	Supervisory	169 mA @ 24 VDC
	Alarm	202 mA @ 24 VDC; backlight and tone-alert on
Mounting Details; Stand-Alone Cabinet Models		See Figure 12 for reference illustration
4100ES Capacity, RUI+ Output	Type	RUI+ (Remote Unit Interface) isolated or un-isolated external annunciator communications line SLC (signaling line circuit); Class B or Class A operation
	Capacity	Up to 31 total remote RUI devices, including up to 10 InfoAlarm Command Center devices
	RUI Device Reference List	4100ES: InfoAlarm Command Center, Remote Annunciators, MINIPLEX Transponders; 4603-9101 LCD Annunciator, 4602-9101 Status Command Unit (SCU), and 4602-9102 Remote Command Unit (RCU); refer to data sheet S4100-1031 for additional 4100ES RUI information (4602 series annunciators require un-isolated communications)
Wiring Requirements	Data	Single twisted, shielded pair, 18 AWG (0.82 mm ²)
	Power	18 to 12 AWG (0.82 mm ² to 3.31 mm ²) wires for 24 VDC system power
	Earth	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

Table 11: Custom Point Detail Messages

Item	Description
Message Location Details	Select "more info" softkey when investigating point detail and scroll to the bottom of the information; typical messages might include contact details (phone numbers, pager numbers, etc.) and other contact or reference information
Number of Messages	Up to 50

Table 11: Custom Point Detail Messages

Item		Description
Message Size	Character Details	120 characters; visible characters = 116; (lines 1 and 2 require one carriage return character and one line feed character)
	Line Details	3 lines total; 40 characters maximum per line; line 3 may be limited to 36 visible characters depending on characters in lines 1 and 2
Environmental		Operating Temperature - 32°F to 120°F (0°C to 49°C)
		Operating Humidity- Up to 93% RH, non-condensing @ 90°F (32°C) maximum

Additional 4100ES and ES Net Product Reference

Table 12: Additional 4100ES and ES Net Product Reference

Subject	Datasheet
4100ES Basic Panels with ES-PS Power Supplies	S4100-1031
NDU with ES-PS Power Supplies for 4120 Network	S4100-1036
NDU with ES-PS Power Supplies for ES Net	S4100-1077