

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:

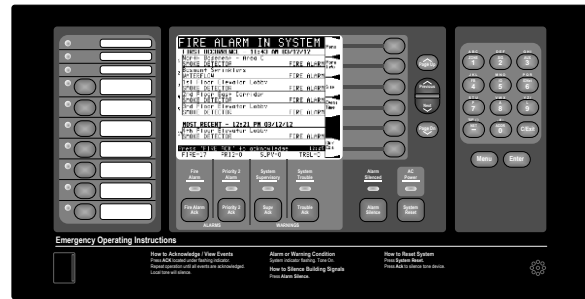
- 320 x 240 dot matrix (QVGA) display provides an active area of 4.53” W x 3.4” H (115 mm x 86 mm) displaying up to 854 characters using standard ASCII character font
- Bright white LED backlighting provides efficient and long lasting illumination; operation is selectable as continuous or off with power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

Display properties:

- 320 x 240 dot matrix (QVGA) display provides an active area of 4.53” W x 3.4” H (115 mm x 86 mm) displaying up to 854 characters using standard ASCII character font

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.



InfoAlarm Command Center for Control Panel Mounting



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

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Control Panel Operation Reference

NOTE: Refer to page 7 for international control panel reference information. Detailed operator instructions are on document 579-685.

THREE PROGRAMMABLE LEDs provide custom labeling, the top two LEDs are selectable as red or yellow, the third LED is selectable as red or green

ULC SYSTEMS require designating a Ground Fault indicator

Custom label insert (typical choices shown for reference)

320 x 240 DOT MATRIX DISPLAY, White LED backlighting provides easy viewing; operation is programmable for key inactivity timeout and/or AC power fail

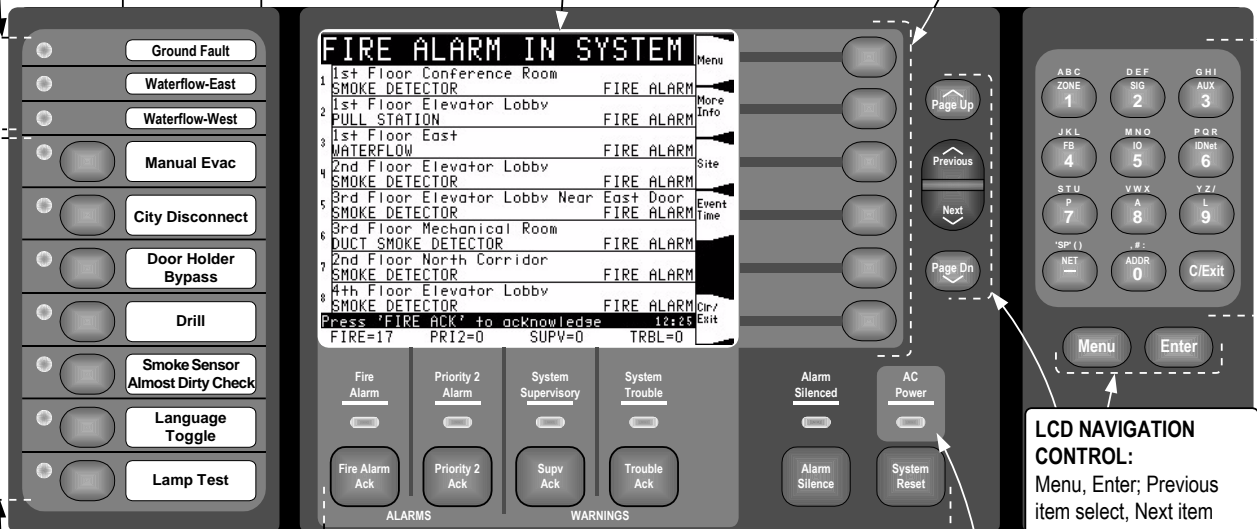
PRIMARY "ACTIVITY IN SYSTEM" DISPLAY OPTIONS: Choices include "First 8" (shown below for "Fire Alarm in System"), "First and Most Recent," "First 5 and Most Recent," "Site Plan," "General Alarm," or "Direct to List." After the event is acknowledged, screen reverts to the sequential event list until Ctr/Exit softkey is selected or after timeout (~ 30 seconds); applicable to Fire Alarm, Priority 2 Alarm, System Supervisory, and System Trouble, each category is independently selectable for primary display mode

SIX SOFT KEYS are available when required. This sample provides **Menu** to call up the available operations; **More Info** to call up specific point details, **Site** to call up the Site Plan Graphic Screen, **Event Time** (while pressed) displays time and date for all displayed events, and **Ctr/Exit**; the following are other typical soft keys:

- Point Enable and Disable
- Force On or Arm
- Force Off or Disarm
- Return On/Off or Arm/Disarm to Auto Mode
- Event Time Request
- More Information Request

NUMERIC KEYPAD for point category and point selection (alphabet characters are not used at this time)

C/Exit Key duplicates the Ctr/Exit softkey when present



SEVEN PROGRAMMABLE FUNCTION SWITCHES, each equipped with dual color LED indicators; the top six LEDs are selectable as either red or yellow, the bottom LED is selectable as either red or green; **NOTE: Program the bottom switch as "Lamp Test" for UL listed systems**

FIRE ALARM ACK acknowledges a Fire Alarm condition, logs the acknowledge, silences the operator panel and all annunciator tone-alerts, and displays sequential alarm list

PRIORITY 2 ACK acknowledges a Priority 2 Alarm condition, logs the acknowledge, silences the operator panel and all annunciator tone-alerts, and displays sequential Priority 2 alarm list

SUPV ACK acknowledges system supervisory conditions, logs the acknowledge, silences the operator panel and all annunciator tone-alerts, and displays sequential supervisory condition list

TROUBLE ACK acknowledges system troubles, logs the acknowledge, silences the operator panel and all annunciator tone-alerts, and displays sequential trouble list

ALARM SILENCE causes notification appliances to be deactivated, typically after evacuation is complete and while alarm source is being investigated. May be programmed to silence audible notification and allow visible notification to continue (strobes still flashing).

SYSTEM RESET restores control panel to normal when all alarmed inputs are returned to normal

SIX SYSTEM STATUS INDICATOR LEDs provide system status indications in addition to LCD information, LEDs flash to indicate the condition and then when acknowledged, remain on until reset :
 Fire Alarm & Priority 2 Alarm, red LED
 Supervisory & Trouble, yellow LED
 Alarm Silenced, yellow LED
 AC Power, green LED (on for normal)

LCD NAVIGATION CONTROL:
 Menu, Enter; Previous item select, Next item select; Page Up and Page Down

Display Feature Reference (shown actual size)

FIRST OCCURRENCES (UP TO 5) AND MOST RECENT OCCURRENCE, ACTIVITY IN SYSTEM DISPLAY ("Fire Alarm in System" screen shown for reference, see page 2 for a First 8 Events display)

FIRST OCCURRENCE advises of the time, date, device type, and custom label of the first occurrence of the event type displayed; the numerical count identifies the sequence of occurrence; when selected as the primary display screen, display of first occurrence and most recent occurrence is maintained until events are acknowledged which brings up the event list (similar to the First 8 display); the display reverts back to "First and Most Recent" when the Clr/Exit softkey is selected or after a time delay

FONT ATTRIBUTES include:

Normal, **Bold**, Underline, **Double**, Dim, **Reverse**, Flash On/Off, Flash On/Dim, and commands for Vertical and Horizontal Placement

SOFT KEYS in this column correspond to the panel pushbutton switches; programming allows the soft keys to appear only when the functions are enabled

DISPLAY SIZE:
4.53" W x 3.4" H
(115 mm x 86 mm)

The display shows the following information:

- Header:** FIRE ALARM IN SYSTEM
- Section 1:** FIRST OCCURRENCE - 11:43 AM 10/13/14
 - 1 North Basement - Area C SMOKE DETECTOR FIRE ALARM
 - Basment Sprinklers WATERFLOW FIRE ALARM
 - 2 1st Floor Elevator Lobby SMOKE DETECTOR FIRE ALARM
 - 3 2nd Floor East Corridor SMOKE DETECTOR FIRE ALARM
 - 4 3rd Floor Elevator Lobby SMOKE DETECTOR FIRE ALARM
 - 5
- Section 2:** MOST RECENT - 12:21 PM 10/13/14
 - 17 4th Floor Elevator Lobby SMOKE DETECTOR FIRE ALARM
- Status Bar:** Press 'FIRE ACK' to acknowledge 12:25
- Tally Counts:** FIRE=17 PRI2=0 SUPV=0 TRBL=0
- Soft Keys:** Menu, More Info, Site, Event Time, Clr/Exit

TALLY COUNTS list the number of activities per category of Fire Alarm (FIRE), Primary 2 Alarm (PRI2), Supervisory (SUPV), and Trouble (TRBL)

COMMAND PROMPT advises the operator of the action required and displays local panel time

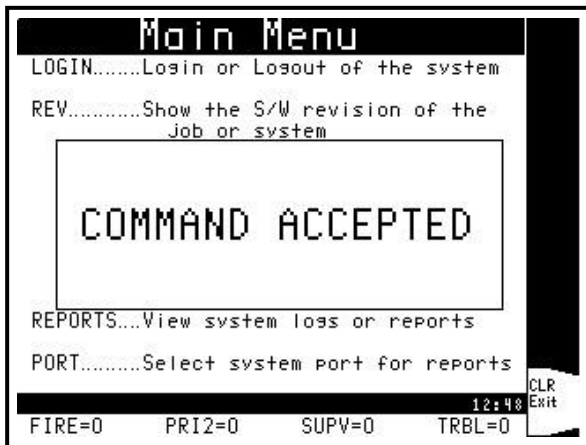
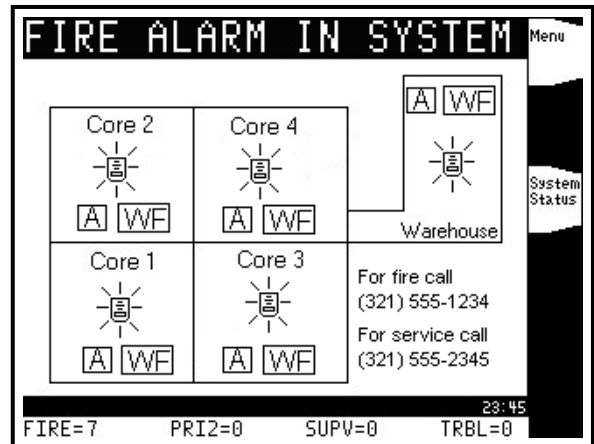
MOST RECENT advises of the time, date, device type, and custom label of the most recent occurrence of the list shown, in this case, the Fire Alarm list

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. (A sample is shown on page 6.)



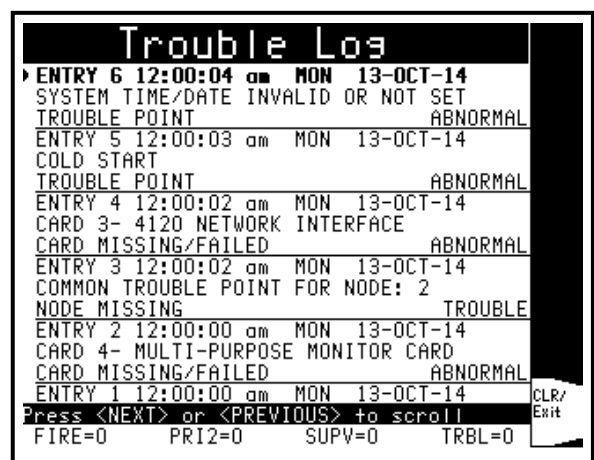
Customized Emphasis

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.

Information Review

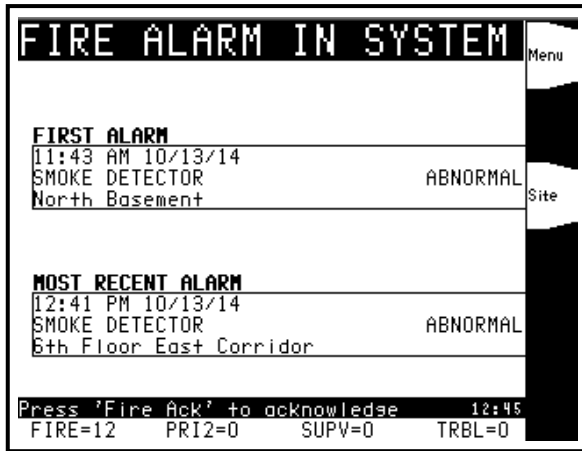
The Trouble Log History screen shown to the right identifies the ability to view multiple event entries with minimal scrolling. For specific information access, pressing “Next” or “Previous” on the keypad highlights the selected next or previous item in the list as indicated by the arrow and the bolded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

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.



Additional Primary Display Screens

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

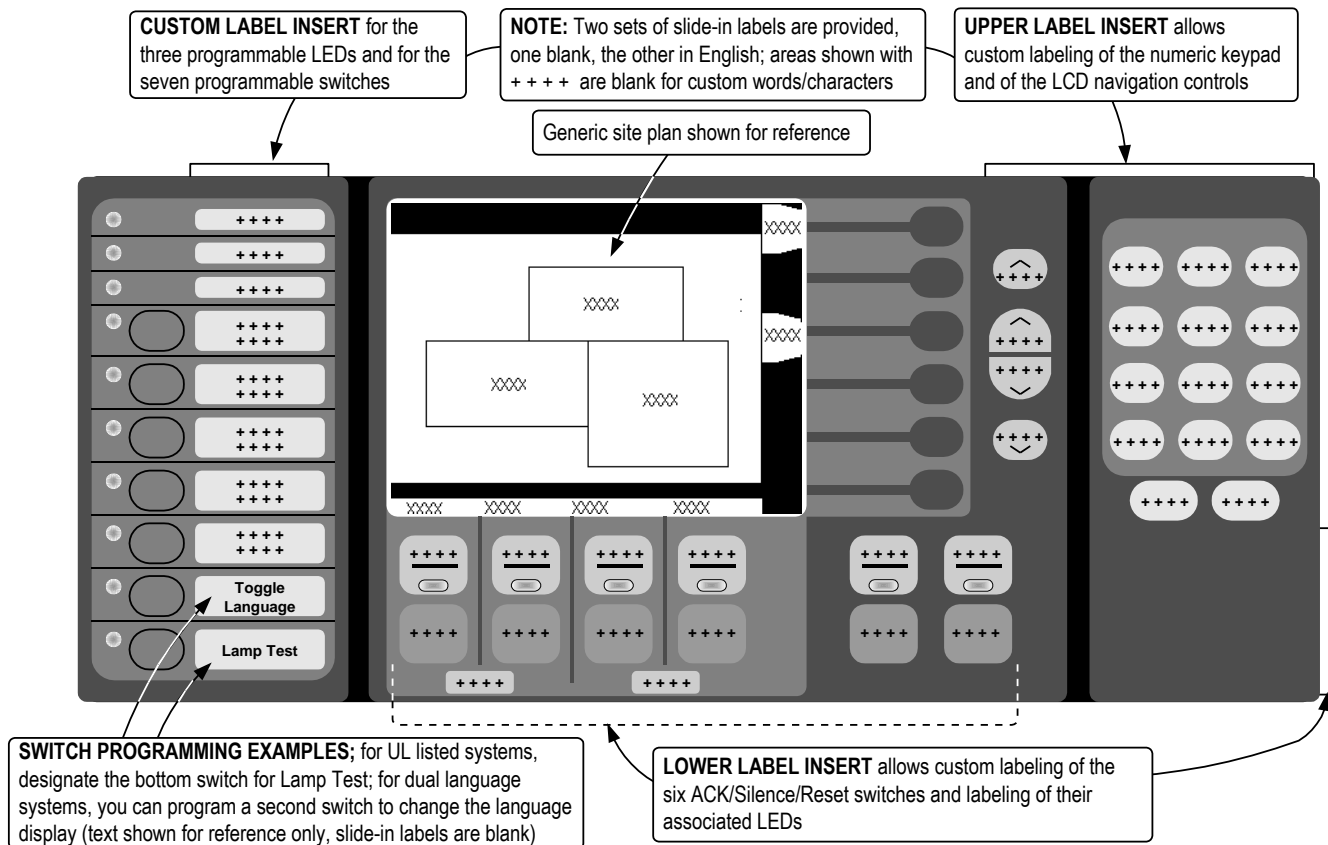


First and Most Recent Primary Display Option



General Alarm Primary Display Option

International Display Details



Additional 4100U Data Sheet Reference

Data Sheet	Subject	Data Sheet	Subject	Data Sheet	Subject
S4100-0031	Standard Panel Reference	S4100-0035	MINIPLEX Transponders	S4100-0032	LED/Switch Modules
S4100-0036	Network Display Unit	S4081-0002	Remote Battery Charger	S4100-0037	Enclosure Options
S4100-0038	Remote Annunciators	S4100-0034	Audio/Phone Modules		

Product Selection

4100ES Master Controller with InfoAlarm Command Center (see data sheet S4100-0031 for descriptions of the 4100ES Basic Control Panel details, standard product features, options, and reference for related fire alarm control panel products)

Model	Model Type	UL	ULC	Voltage	InfoAlarm Command Center Type	Master Controller Features
4100-9114	English	✓	—	120 VAC, 60 Hz	Master Controller Assembly; raised keys with fixed labels	9 A system power supply/battery charger (SPS), 250 point IDNet interface, 3 NACs, auxiliary relay, and external RUI+ (isolated or un-isolated) communications interface
4100-9115	English	—	✓			
4100-9116	French	—	✓			
4100-9213	International	✓	—	120 VAC, 60 Hz	Master Controller Assembly; flat keys with inserts for custom key labels	One Command Center with redundant CPU cards and SPS power supplies in a two bay assembly. Active SPS battery charger in Bay 1 only. External RUI connections require 4100-1291 RUI expansion modules. Do not use circuit connections on primary and secondary SPS power supplies. Not compatible with ES Net network panels.
4100-9212	International	✓	—	220/240 VAC, 50/60 Hz		
4100-9122	English	✓	—	120 VAC, 60 Hz	Redundant CPU (Master Controller); raised keys with fixed labels	One Command Center with redundant CPU cards and SPS power supplies in a two bay assembly. Active SPS battery charger in Bay 1 only. External RUI connections require 4100-1291 RUI expansion modules. Do not use circuit connections on primary and secondary SPS power supplies. Not compatible with ES Net network panels.
4100-9222	International	✓	—	220/240 VAC, 50/60 Hz	Redundant CPU (Master Controller); flat keys with inserts for custom key labels	

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

Model	Model 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	

Network Display Unit (NDU) Master Controller with InfoAlarm Command Center

(NOTE: See data sheet S4100-0036 for NDU feature details and for details on SPS NAC ratings for NDU with VCC)

Model	Model Type	UL	ULC	Voltage	NDU Type	Master Controller Features
4100-9151	English	✓	—	120 VAC, 60 Hz	NDU (Standard, Non-Voice); raised keys with fixed labels	Includes: 4100-0640 InfoAlarm Memory Expansion, Network Interface Card (select media cards separately), 9 A SPS power supply/batt. charger, and external RUI+ (isolated or un-isolated) communications interface; (NOTE: SPS IDNet channel and NACs are disabled)
4100-9153	English	—	✓			
4100-9154	French	—	✓			
4100-9245	International	✓	—	120 VAC, 60 Hz	NDU (Standard, Non-Voice); flat keys with inserts for custom key labels	Includes above features and adds: VCC Bay with Standard CPU Module, Network Interface Card (select media cards separately), 9 A SPS with 250 Point IDNet Interface, (3) 3 A NACs, and RUI+ (isolated or un-isolated) communications interface
4100-9243	International	✓	—	220/240 VAC, 50/60 Hz		
4100-9152	English	✓	—	120 VAC, 60 Hz	NDU with Voice Interface and Control; raised keys with fixed labels	Includes above features and adds: VCC Bay with Standard CPU Module, Network Interface Card (select media cards separately), 9 A SPS with 250 Point IDNet Interface, (3) 3 A NACs, and RUI+ (isolated or un-isolated) communications interface
4100-9155	English	—	✓			
4100-9156	French	—	✓			
4100-9246	International	✓	—	120 VAC, 60 Hz	NDU with Voice Interface and Control; flat keys with inserts for custom key labels	Includes above features and adds: VCC Bay with Standard CPU Module, Network Interface Card (select media cards separately), 9 A SPS with 250 Point IDNet Interface, (3) 3 A NACs, and RUI+ (isolated or un-isolated) communications interface
4100-9244	International	✓	—	220/240 VAC, 50/60 Hz		

Remote Annunciator with InfoAlarm Command Center (see data sheet S4100-0038 for Remote Annunciator features)

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

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

(continued on next page)

Product Selection (Continued)

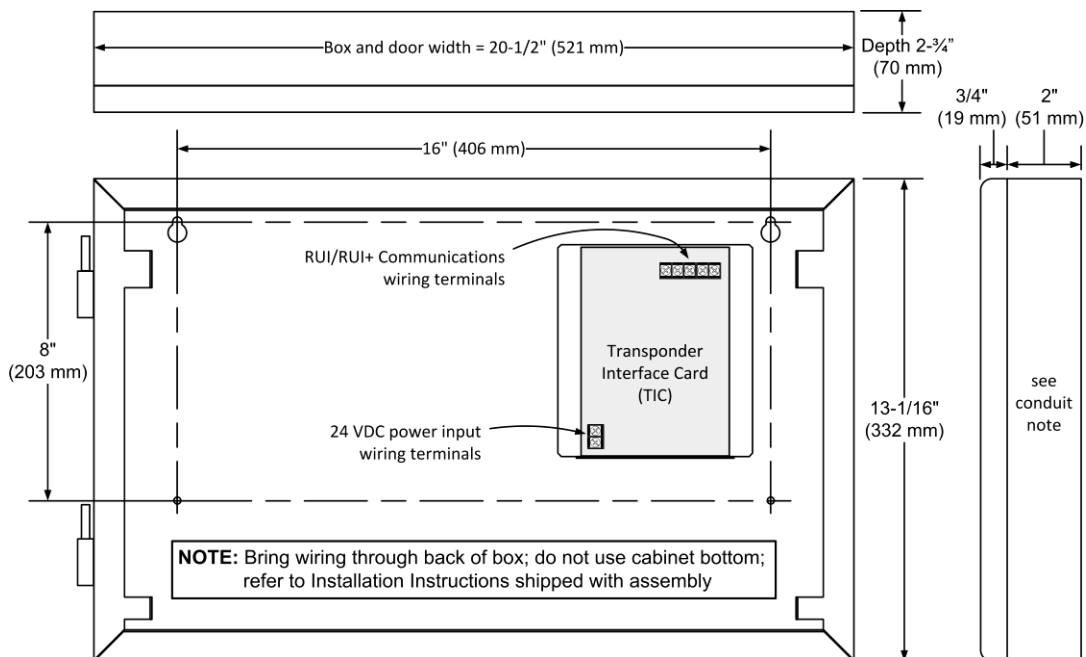
Remote InfoAlarm Command Center Control Assembly with Cabinet for Surface Mounting

Model 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 illustrations below and Installation Instructions 579-687 for details
4100-9421	4100-9423	French/Canada	ULC	
4100-9441	4100-9443	International	UL	

Remote InfoAlarm Command Center Front View



Remote InfoAlarm Command Center Mounting Reference



Specifications

General Display Specifications

Size Reference	Dot Matrix Size	320 x 240
	Active Display Area	4.53" W x 3.4" H (115 mm x 86 mm), includes header, footer, and softkey area; 5.66" 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	

Control Panel Mounted InfoAlarm Command Center Current Requirements

Master Controllers (4100-9114, -9115, -9116, -9212, -9213, -9222)	Supervisory	445 mA @ 24 VDC	Panel currents only are shown, add external device loading per system requirements
	Alarm	540 mA @ 24 VDC; backlight and tone-alert on	
Redundant CPUs (4100-9122, -9222)	Supervisory	636 mA @ 24 VDC	
	Alarm	818 mA @ 24 VDC; backlight and tone-alert on	
Network Display Units, Non-Voice (4100-9151, -9153, -9154, -9243, -9245)	Supervisory	491 mA @ 24 VDC	
	Alarm	546 mA @ 24 VDC; backlight and tone-alert on	
Network Display Units, Voice (4100-9152, -9155, -9156, -9244, -9246)	Supervisory	900 mA @ 24 VDC	
	Alarm	1.017 A @ 24 VDC; backlight and tone-alert on	
Upgrade Kits	4100-7153 & -7155 for 4100U	add 82 mA supervisory; add 127 mA for alarm	
	4100-7154 & -7156 for Legacy 4100+	add 235 mA supervisory; add 280 mA for alarm	

Remote Annunciators with InfoAlarm Command Center, Powered from Control Panel

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 page 6 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 S4100-0031 for additional 4100ES RUI information (4602 series annunciators require un-isolated communications)
	Data Power	Single twisted, shielded pair, 18 AWG (0.82 mm ²)
Wiring Requirements	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

Custom Point Detail Messages

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	
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° to 120°F (0° to 49° C)
	Operating Humidity	Up to 93% RH, non-condensing @ 90° F (32° C) maximum

Additional 4100ES and ES Net Product Reference

Subject	Data Sheet
Serial DACT (SDACT) for 4100ES, 4010ES, 4007ES	S2080-0009
Battery and Battery Cabinet Reference for 4100ES	S2081-0006
110 Ah Batteries and Cabinets for 4100ES	S2081-0012
Seismic Battery Brackets Reference	S2081-0019
External 110 Ah Battery Charger for 4100ES, 4010ES	S4081-0002
4100ES Basic Panels with SPS Power Supplies	S4100-0031
4100ES LED/Switch Modules & Printer	S4100-0032
4100ES Emergency Voice/Alarm Equipment	S4100-0034
NDU with SPS Power Supplies for 4120 Network	S4100-0036
4100ES Enclosures	S4100-0037
4120 Network Products and Specifications	S4100-0056
ES Net Network Products and Specifications	S4100-0076
NDU with SPS Power Supplies for ES Net	S4100-0077
4100ES Basic Panels with EPS Power Supplies	S4100-0100
InfoAlarm Command Center with EPS Power Supplies	S4100-0101
NDU with EPS Power Supplies for 4120 Network	S4100-0102
NDU with EPS Power Supplies for ES Net	S4100-0104

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S4100-0045-11 5/2018

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