

Features

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

- Fire alarm control panels (stand-alone or networked)
- Network Display Units (NDU) with support for up to 12,000 points
- Remote InfoAlarm Command Centers mounted in a dedicated cabinet (4100ES control panels support Remote InfoAlarm Command Centers independent of host panel display type)
- Models include an Enhanced Power Supply (EPS) and battery charger (9 A total) with on-board: **IDNAC** SLCs (signaling line circuit) for addressable appliance control, an electrically isolated **IDNet 2** addressable device control module with dual short circuit isolating output loops; and programmable function auxiliary output
- For additional information concerning EPS power supplies and their enhanced features, refer to 4100ES data sheet **AC4100-0100**
- For additional 4100ES related applications, including models with power supplies for conventional non-addressable NACS, refer to data sheet **AC4100-0045**

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

UL listed to Standard 864

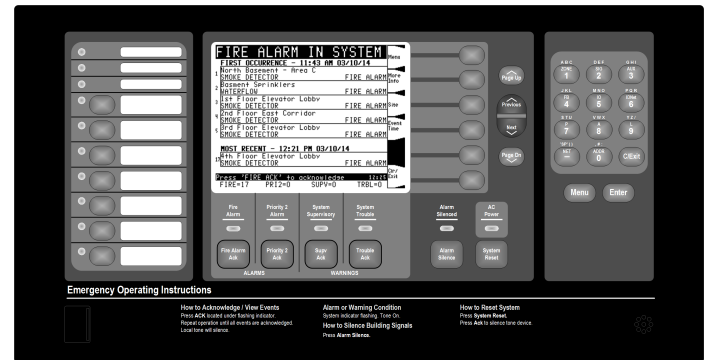


Figure 1: InfoAlarm Command Center for Control Panel Mounting



Figure 2: InfoAlarm Command Center in Remote Cabinet

Introduction

Displaying more information. 4100ES Controls using the InfoAlarm Command Center provide an expanded content, multi-line LCD interface that requires minimal key presses to access detailed information. Because it is system-powered, its detailed information is provided without requiring separate supplementary equipment.

InfoAlarm Command Center Control Panel. 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 is flexible and able to be customized per application allowing additional information to be presented to suit the specific application.

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 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

InfoAlarm Command Center for Fire Alarm Control Panels with EPS Power Supplies

- 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

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. Figure 3 shows 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.)

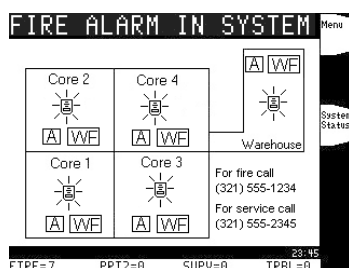


Figure 3: Site Plan Bitmap

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.

Information Review

The Trouble Log History screen shown in Figure 4 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.



Figure 4: Information Review

Customized Emphasis

The Main Menu screen illustration shown in Figure 5 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.

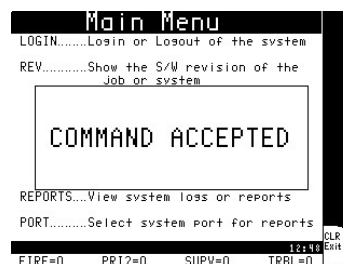


Figure 5: Customized Emphasis

Additional Primary Display Screens

Figure 6 and Figure 7 are samples of a First and Most Recent primary display and of a General Alarm display.

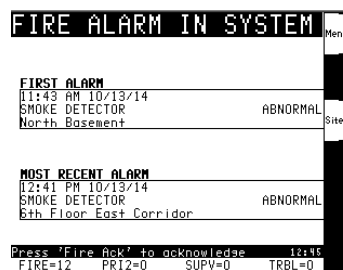
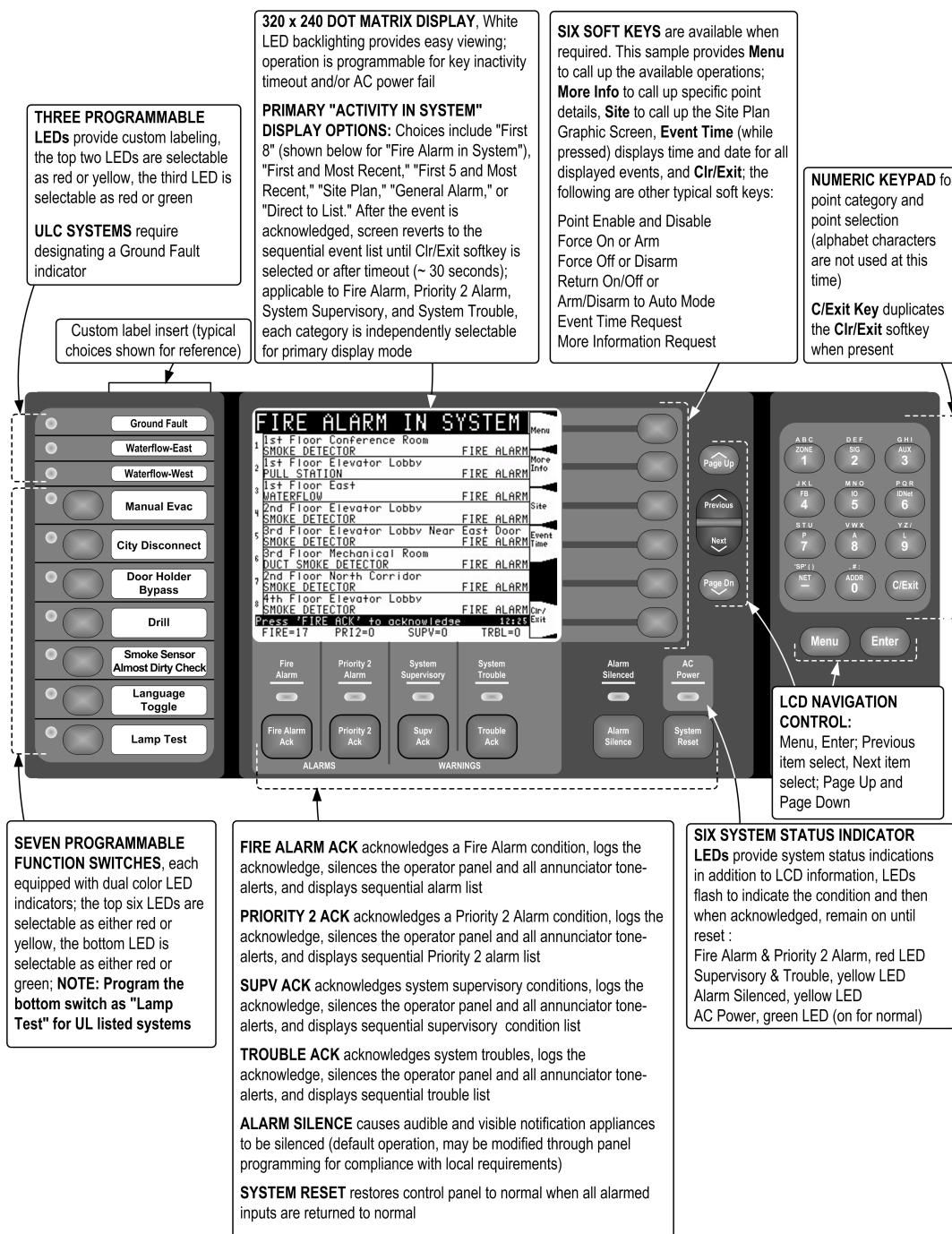


Figure 6: First and Most Recent Primary Display Option

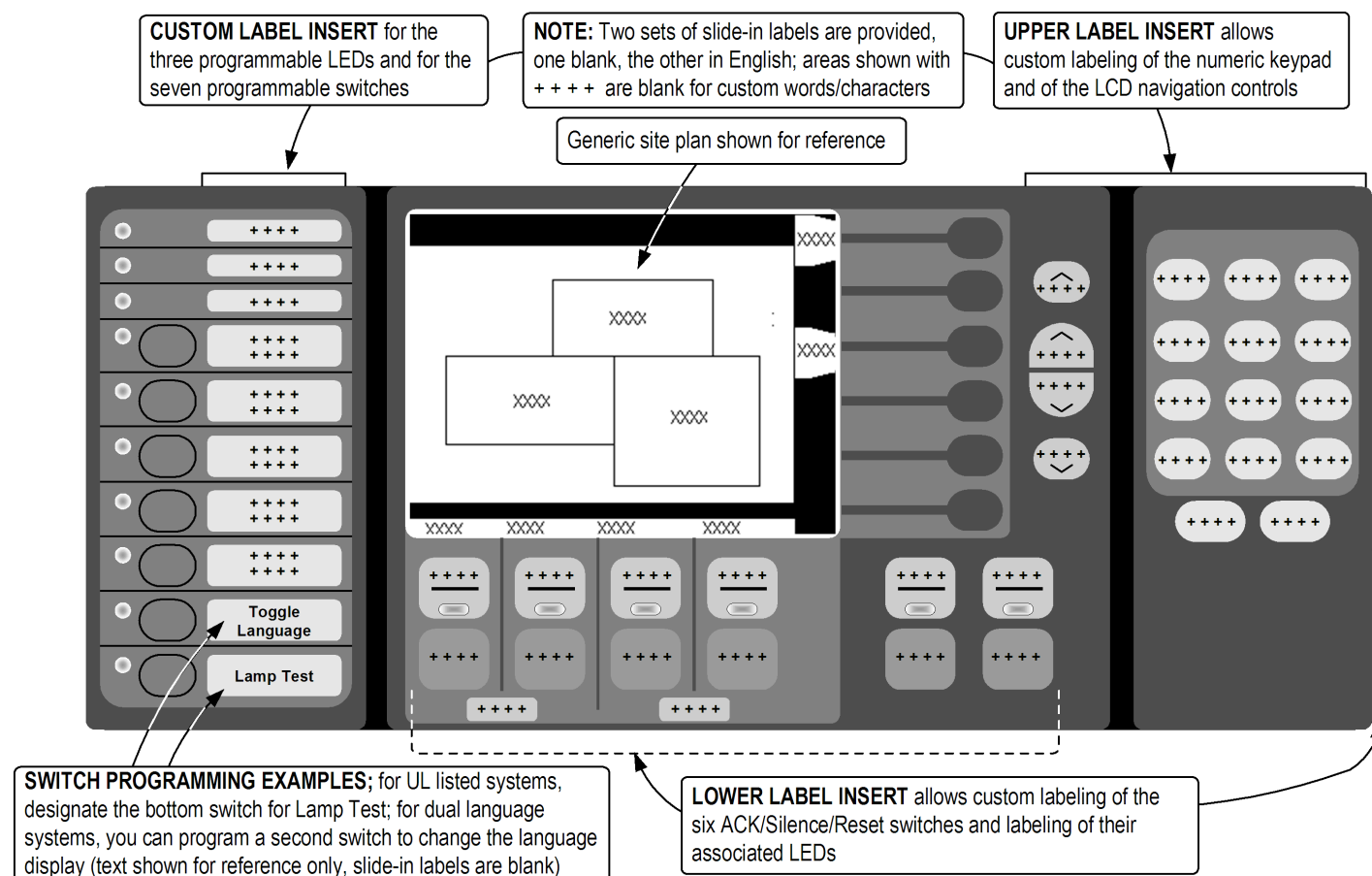


Figure 7: General Alarm Primary Display Option

Control Panel Operation Reference



International Display Details



InfoAlarm Command Center for Fire Alarm Control Panels with EPS Power Supplies

Product Selection

Table 1: 4100ES Master Controller with InfoAlarm Command Center*

SKU	SKU Type	UL	ULC	Voltage	InfoAlarm Command Center Type	Master Controller Features
A100-9314	English	Yes	—	120 VAC, 50/60 Hz	Master Controller Assembly; raised keys with fixed labels	Standard CPU Module with RUI+ isolated output communications interface; 9 A Enhanced Power Supply (EPS) with battery charger, electrically isolated 250 Point IDNet 2 Module, three Class B IDNAC SLCs, one 2 A output configurable for Auxiliary Power or Simple NAC operation and expansion slot for City Circuit or Alarm/ Supv/Tbl Relay option.
A100-9513	International	Yes	—	120 VAC, 50/60 Hz	Master Controller Assembly; flat keys with inserts for custom key labels	
A100-9512	International	Yes	—	220/240 VAC, 50/60 Hz		

Table 2: Network Display Unit (NDU) with Voice, Master Controller with InfoAlarm Command Center (NOTE: See data sheet AC4100-0102 for NDU feature details)

SKU	SKU Type	UL	ULC	Voltage	Description
A100-9352	English	Yes	—	120 VAC, 50/60 Hz	<p>Top Bay Equipment: InfoAlarm Command Center (raised keys with fixed labels); Network Interface Module (select media cards separately), Standard CPU Module with RUI output communications interface; 9 A System Power Supply (SPS) with battery charger, one 2 A Auxiliary Power output and expansion slot for City Circuit or Alarm/Supv/Tbl Relay option (NOTE: SPS IDNet channel, NACs and Aux Relay are disabled in NDU bay).</p> <p>Second Bay Equipment: Voice Command Center (VCC) Bay includes Standard CPU Module with RUI+ isolated output communications interface; Network Interface Module (select media cards separately); 9 A Enhanced Power Supply (EPS) with battery charger, electrically isolated 250 Point IDNet 2 Module, three Class B IDNAC SLCs, one 2 A output configurable for Auxiliary Power or Simple NAC operation, and expansion slot for City Circuit or Alarm/Supv/Tbl Relay option.</p>

Table 3: InfoAlarm Command Center Memory Option (may be required to be ordered separately, see description details)

SKU	Description
A100-0640	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 4: Four Loop IDNet Master Controller Option

SKU	Description
A100-3112	Four Loop IDNet Master Controller; for the Master Controller and VCC Assemblies listed above, this option moves the standard IDNet 2 Module from the Master Controller/VCC EPS to an available block space in the associated master controller or VCC bay and adds 2, A100-3111 IDNet Loop Output Modules; current requirements remain the same (refer to data sheet AC4100-0100 for IDNet module details)

Table 5: Remote InfoAlarm Command Center Control Assembly with Cabinet for Surface Mounting

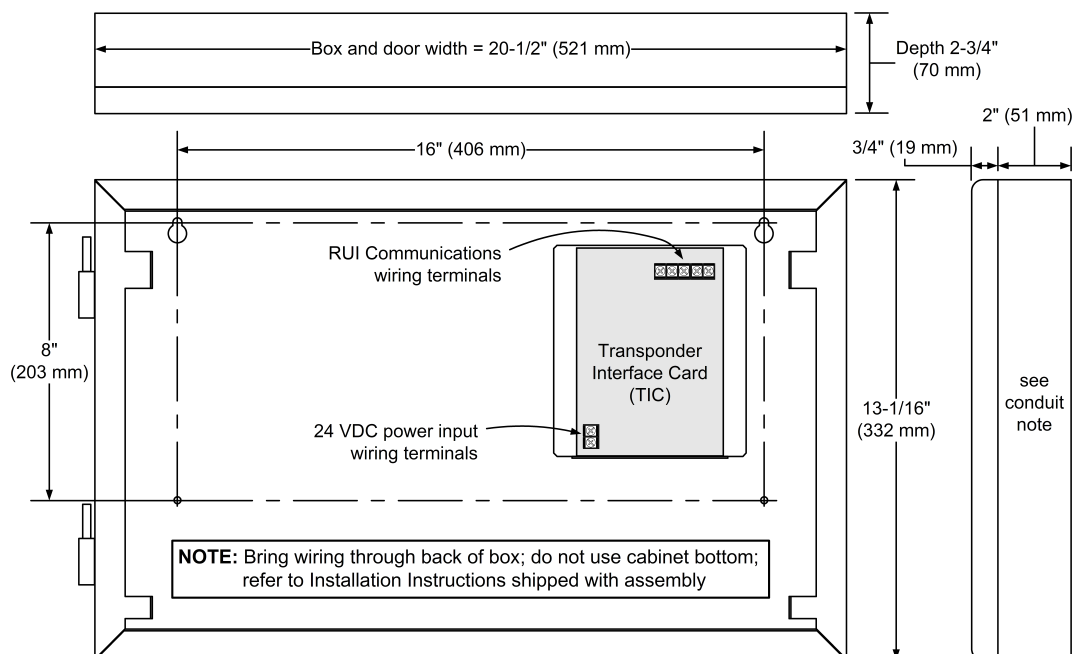
SKU	Cabinet Color	Application Type	Listing	Description
A100-9401	Red	English	UL & ULC	Remote InfoAlarm Command Center with NEMA 1 cabinet; for surface mounting; includes mounting box and door assembly with glass insert; uses RUI communications; requires external 24 VDC system voltage; see illustrations in Remote InfoAlarm Command Center Front View and Remote InfoAlarm Command Center Mounting Reference and Installation Instructions 579-687AC for details
A100-9403	Platinum			
A100-9441	Red	International	UL	
A100-9443	Platinum			

Note: Please refer to data sheet [AC4100-0100](#) for detailed descriptions of the 4100ES with EPS Basic Control Panel details, standard product features, options, and reference for related fire alarm control panel products, see [Additional 4100ES Data Sheet Reference](#).

Remote InfoAlarm Command Center Front View



Remote InfoAlarm Command Center Mounting Reference



Specifications

Table 6: General Display Specifications

Specification		Rating
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

Table 7: Control Panel Mounted InfoAlarm Command Center Current Requirements

SKU		Current Requirement	
Master Controllers: A100-9314 A100-9513 A100-9512	Supervisory	497 mA @ 24 VDC	With 250 IDNet devices and 20 device LEDs in alarm; calculate other external loads separately
	Alarm	805 mA @ 24 VDC; backlight and tone-alert on	
Network Display Units, Voice	Supervisory	952 mA @ 24 VDC	
A100-9352	Alarm	1.212 A @ 24 VDC; backlight and tone-alert on	

Table 8: 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 Remote InfoAlarm Command Center Mounting Reference for details.
4100ES Capacity, RUI and RUI+ Output Reference (refer to data sheet AC4100-0100 for additional 4100ES RUI+ information)	Type	RUI (Remote Unit Interface) external annunciator communications line SLC (signaling line circuit); RUI+ provides isolated output; Class B or Class A operation
	Capacity	Up to 31 total remote RUI devices, including up to 10 InfoAlarm Command Center devices
	Compatible RUI and RUI+ remote equipment	Remote InfoAlarm Command Center, MINIPLEX transponders, A4603-9101 LCD Annunciators, and 4100 Series 24 I/O and LED/Switch modules
	Compatible RUI only remote equipment	A602 Series LED/Switch and I/O Annunciator modules, including A602-9101 Status Command Units (SCU), and A602-9102 Remote Command Units (RCU); (refer to data sheet AC4602-0001)
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 (National Electrical Code) Article 250

Table 9: Custom Point Detail Messages

Custom Point		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
Message Size	Character Details	120 characters; visible characters = 116; (lines 1 and 2 require one carriage return character and one line feed character)

Table 9: Custom Point Detail Messages

Custom Point		Description
	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 Data Sheet Reference

Data Sheet	Subject
AC4100-0100	4100ES Panel Reference (with EPS power supply)
AC4100-0102	Network Display Unit (with EPS power supply)
AC4100-0103	MINIPLEX Transponders (with EPS power supply)
AC4100-0038	Remote Annunciators
AC4100-0034	Audio/Phone Modules
AC4100-0032	LED/Switch Modules
AC4100-0037	Enclosure Options
AC4100-0031	Additional 4100ES Basic Panel Reference
AC4100-0045	Additional InfoAlarm Command Center Model Reference