Features

Remote multi-line expanded content display interface for Simplex 4010ES Series fire alarm control units:

- Remote InfoAlarm Command Centers that mount in a dedicated cabinet
- 4010ES control units support Remote InfoAlarm Command Centers independent of host panel display type
- 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

Displaying more information. The InfoAlarm Command Center provides 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, Priority 2, 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.

Figure 1: InfoAlarm Command Center in Remote Cabinet

Description

Remote InfoAlarm Command Centers for 4010ES 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 Remote InfoAlarm Command Centers are supported per 4010ES control unit; 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

User Interface Operation Reference

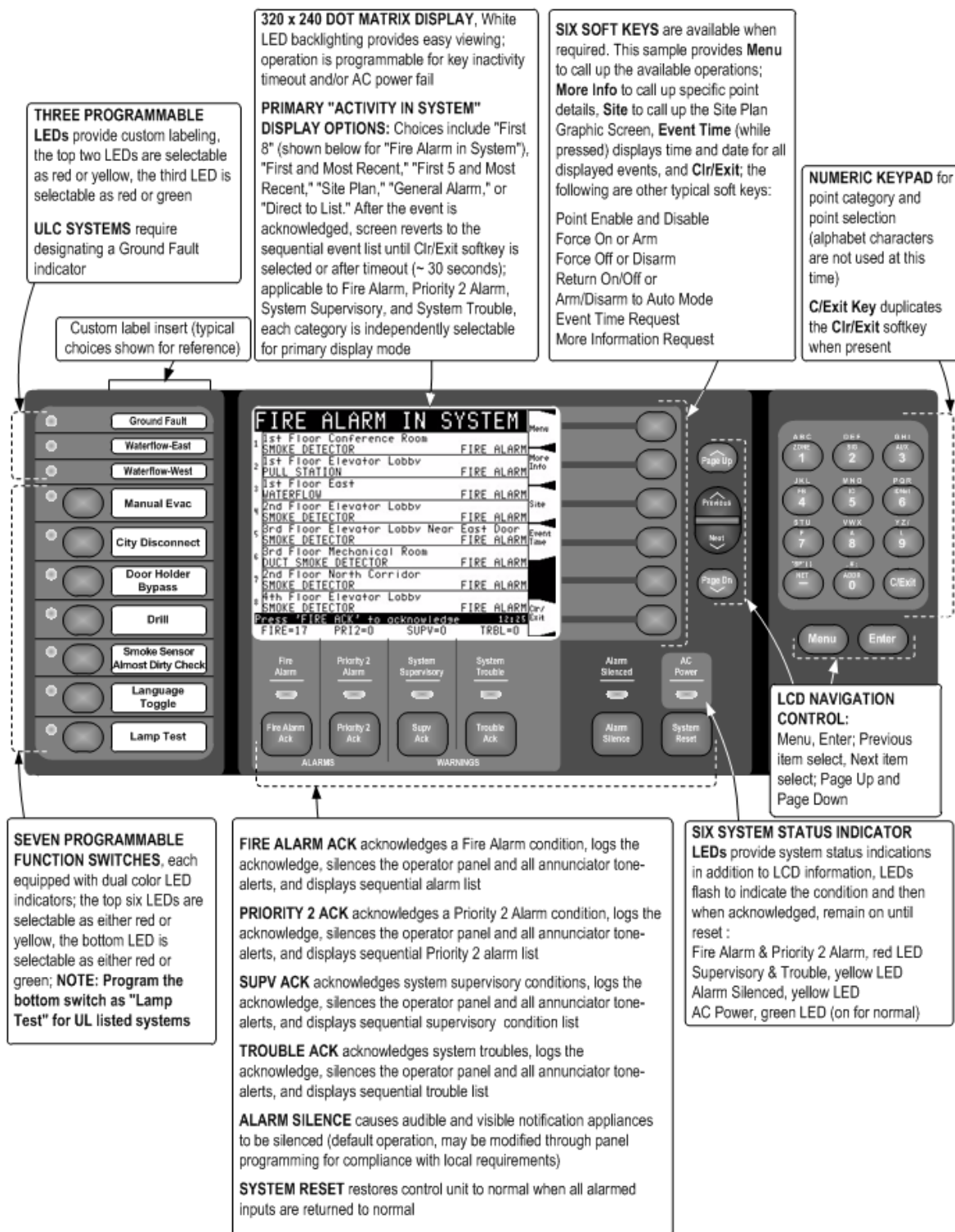**Note:** Refer to International Display Details for international InfoAlarm user interface reference information.

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 Clr/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 **Clr/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 **Clr/Exit** softkey when present

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)

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

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 audible and visible notification appliances to be silenced (default operation, may be modified through panel programming for compliance with local requirements)

SYSTEM RESET restores control unit 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)

Figure 2: User Interface Operation Reference

Display Feature Reference

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

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

FONT ATTRIBUTES include:

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

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

```
FIRE ALARM IN SYSTEM          Menu
  1st Floor Conference Room
1 SMOKE DETECTOR                FIRE ALARM
  1st Floor Elevator Lobby             More
2 PULL STATION                  FIRE ALARM Info
  1st Floor East
3 WATERFLOW                     FIRE ALARM
  2nd Floor Elevator Lobby             Site
4 SMOKE DETECTOR                FIRE ALARM
  3rd Floor Elevator Lobby Near East Door  Event
5 SMOKE DETECTOR                FIRE ALARM Time
  3rd Floor Mechanical Room
6 DUCT SMOKE DETECTOR           FIRE ALARM
  2nd Floor North Corridor
7 SMOKE DETECTOR                FIRE ALARM
  4th Floor Elevator Lobby
8 SMOKE DETECTOR                FIRE ALARM Clr/
Press 'FIRE ACK' to acknowledge      12:25 Exit
FIRE=17    PRI2=0    SUPV=0    TRBL=0
```

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 control unit 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

Figure 3: Display Feature Reference

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 4010ES or can display a site-specific logo or other information. (A sample is shown in Remote InfoAlarm Command Center Front View.)
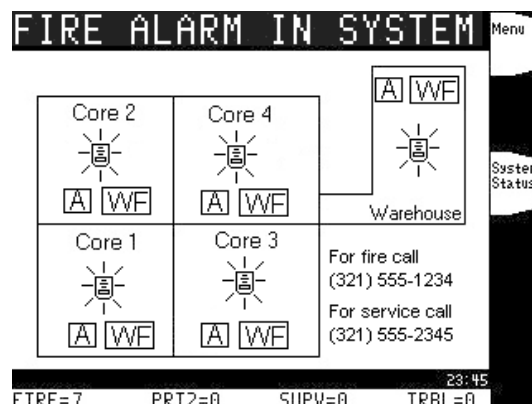
Figure 4: Fire Alarm in System screen

Customized Emphasis
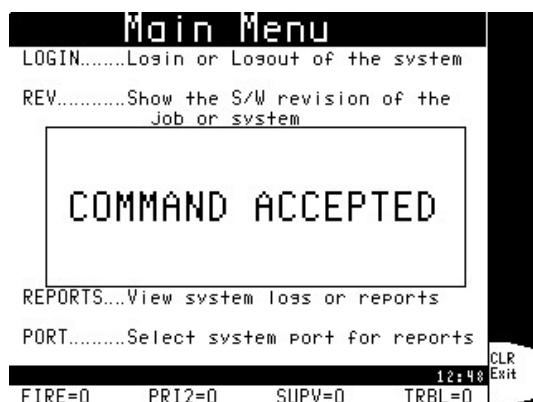
Figure 5: Main Menu screen

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.
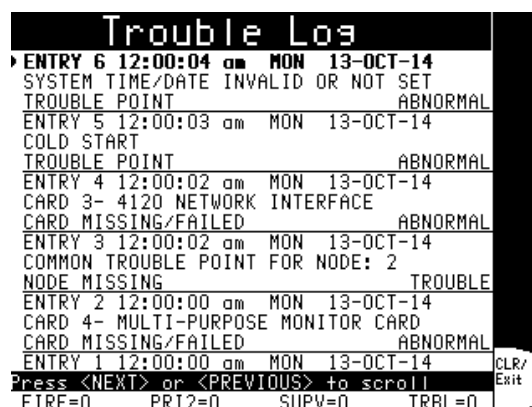
Figure 6: Trouble Log History screen

Additional Primary Display Screens

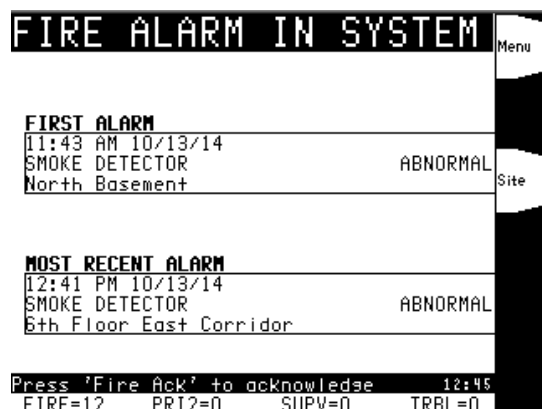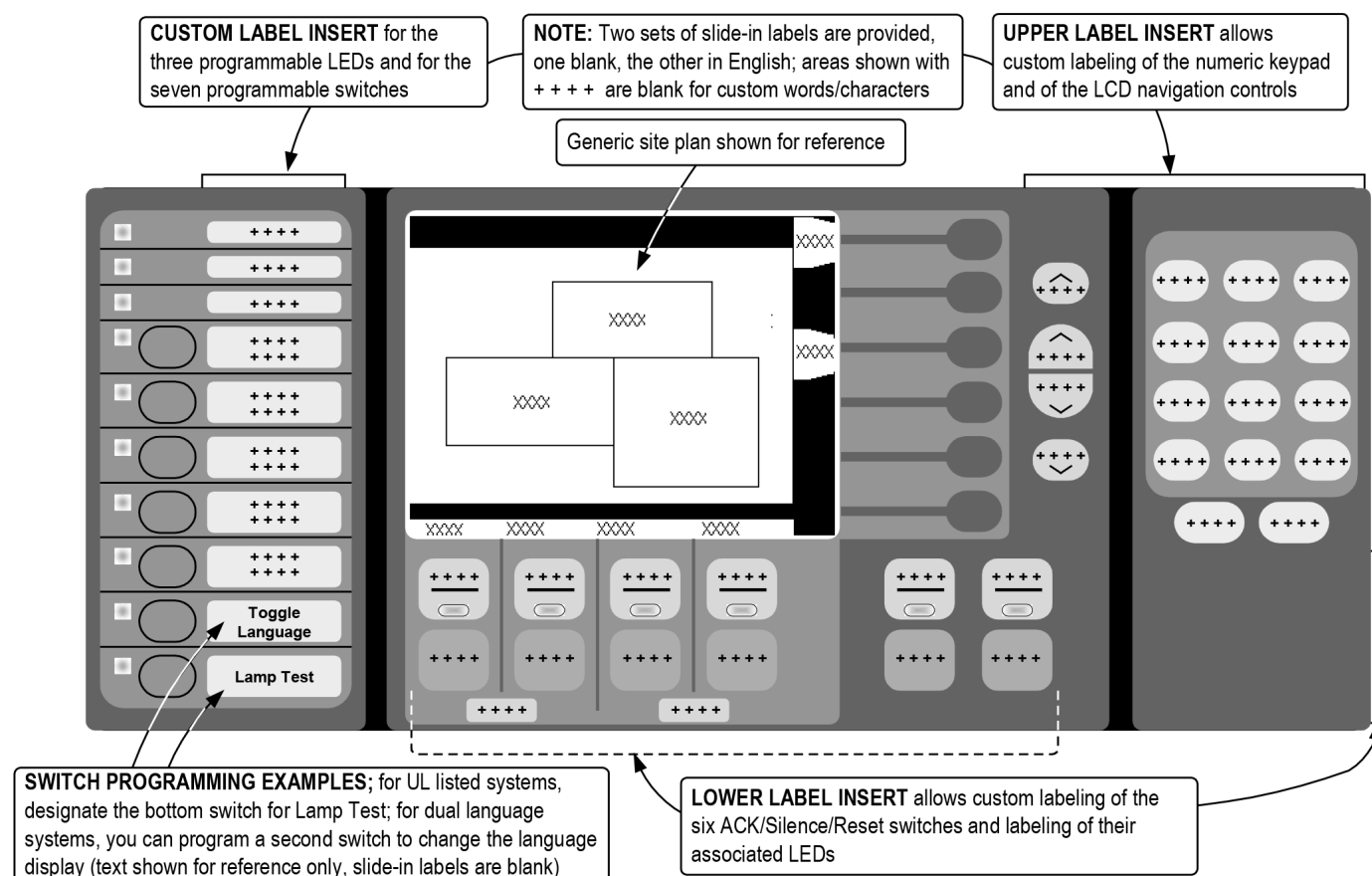Below are samples of a First and Most Recent primary display and of a General Alarm display.

Figure 7: First and Most Recent Primary Display Option

Figure 8: General Alarm Primary Display Option
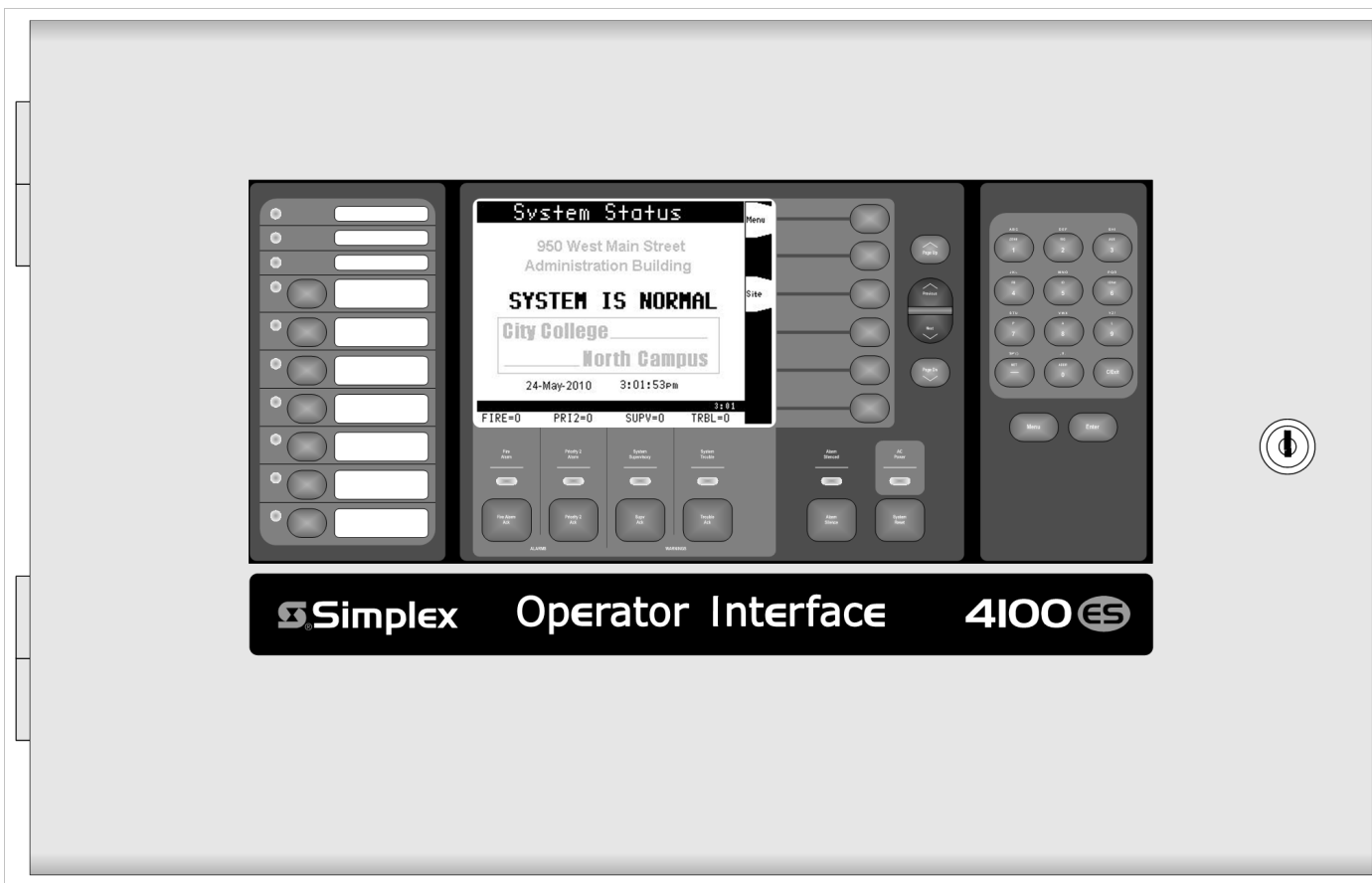
International Display Details

CUSTOM LABEL INSERT for the three programmable LEDs and for the seven programmable switches

NOTE: Two sets of slide-in labels are provided, one blank, the other in English; areas shown with + + + + are blank for custom words/characters

UPPER LABEL INSERT allows custom labeling of the numeric keypad and of the LCD navigation controls

Generic site plan shown for reference

SWITCH PROGRAMMING EXAMPLES; for UL listed systems, designate the bottom switch for Lamp Test; for dual language systems, you can program a second switch to change the language display (text shown for reference only, slide-in labels are blank)

LOWER LABEL INSERT allows custom labeling of the six ACK/Silence/Reset switches and labeling of their associated LEDs

Remote InfoAlarm Command Center Product Selection

Table 1: Remote InfoAlarm Command Center Control Assembly with Cabinet for Surface Mounting

Model/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 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

Box and door width = 20-1/2" (521 mm)

Depth 2-3/4" (70 mm)

2" (51 mm)

16" (406 mm)

3/4" (19 mm)

RUI Communications wiring terminals

Transponder Interface Card (TIC)

8" (203 mm)

24 VDC power input wiring terminals

13-1/16" (332 mm)

see conduit note

NOTE: Bring wiring through back of box; do not use cabinet bottom; refer to Installation Instructions shipped with assembly
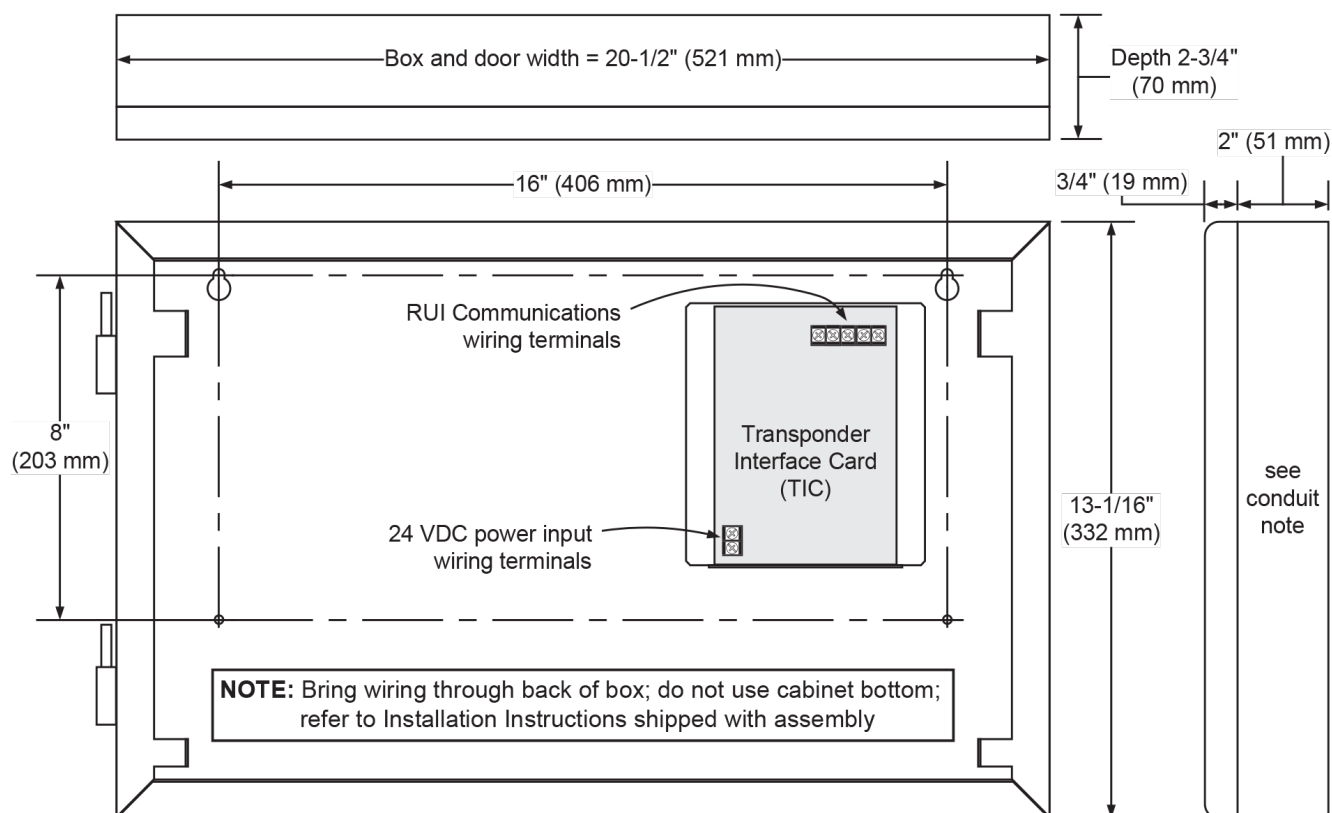
Specifications

Table 2: General Display Specifications

Specification	Description	
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 3: Remote Annunciators with InfoAlarm Command Center, Powered from Control Panel

Specification	Description	
Voltage	19 to 33 VDC (24 VDC nominal), system supplied; requires separate wiring	
Current	Supervisory	186 mA @ 24 VDC
	Alarm	214 mA @ 24 VDC; backlight and tone-alert on
Mounting Details; Stand-Alone Cabinet Models	See Remote InfoAlarm Command Center Mounting Reference for reference illustration	
4010ES Capacity, RUI Output	Type	RUI (Remote Unit Interface) external annunciator communications line SLC (signaling line circuit)
	Capacity	Up to 10 Remote InfoAlarm Command Center devices, up to 20 internal and external card addresses per 4010ES
Wiring Requirements	Data	Unshielded Twisted Pair, 18 to 12 AWG (0.82 mm^2 to 3.31 mm^2) wires
	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
	Resistance and Capacitance	0.58 μF (580 nF) maximum capacitance between conductors; 35 Ω maximum total line resistance
Distance	Class X wiring	Up to 2500 ft (762 m)
	Class B "T-Tap" wiring	Up to 10,000 ft (3048 m) total wiring; up to 2500 ft (762 m) to farthest device

Table 4: Custom Point Detail Messages

Specification	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 one and two require one carriage return character and one line feed character)
	Line Details	Three lines total; 40 characters maximum per line; line three may be limited to 36 visible characters depending on characters in lines one and two

Table 5: Environmental

Specification	Description
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 Data Sheet Reference

Table 6: Data Sheet Reference

Datasheet	Subject
S4010-0004	4010ES Basic Control Units
S4010-0005	4010ES Suppression Release