5 Simplex

UL, ULC, CSFM Listed; FM Approved; MEA (NYC) Acceptance*

Features

Multi-line expanded content display interface for Simplex[®] 4100U 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) (single language supports up to 12,000 points, bilingual operation supports up to 9000 points)
- Remote Annunciator panels and models that mount in a dedicated cabinet (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 4100U control 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

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

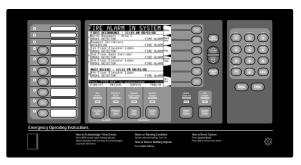
Introduction

Displaying more information. 4100U 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.

4100U Fire Control Panels

InfoAlarm[™] Command Center for the 4100U Fire Alarm Control Panel



InfoAlarm Command Center for Control Panel Mounting



InfoAlarm Command Center in Remote Cabinet

Description

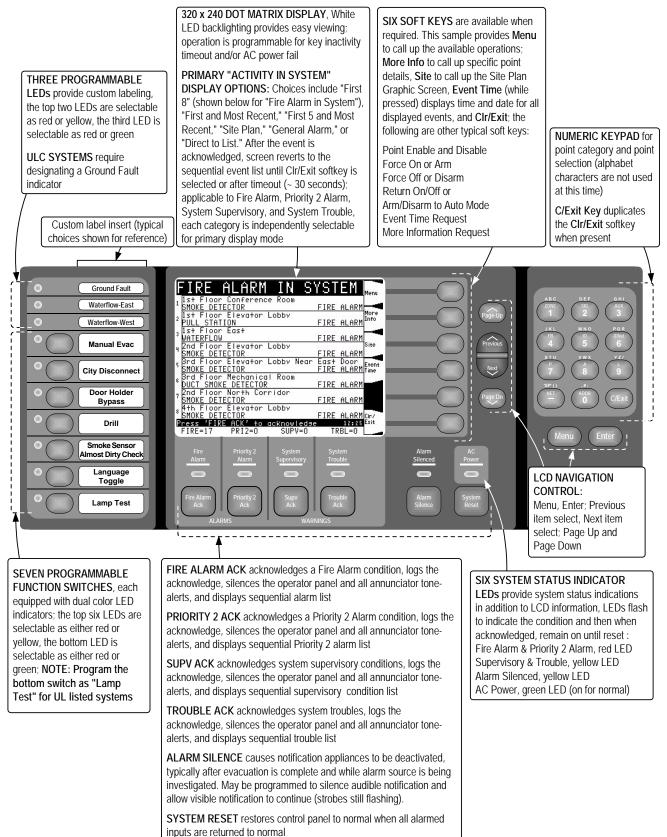
InfoAlarm Command Centers for 4100U fire alarm systems provide a large display with extended information content, dual language support including 2 byte character languages, and an intuitive control key interface per the following:

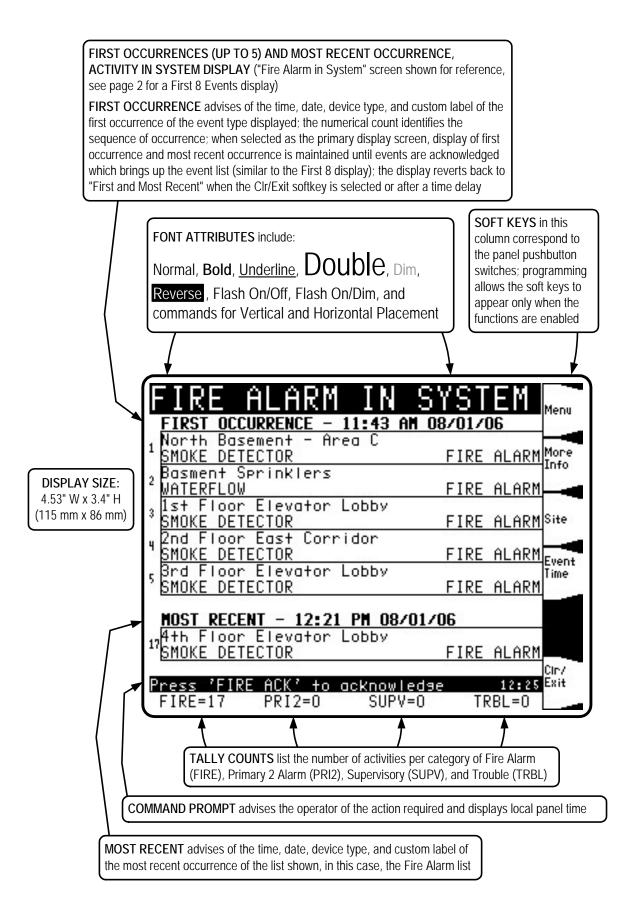
- Up to 10 InfoAlarm Command Centers are supported per 4100U control panel; able to allow one InfoAlarm Command Center to take-control and to designate access levels for interfaces not in-control; LEDs can be programmed for in-control status indications
- Menu-driven format conveniently prompts operators 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

^{*} This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7165-0026:251 (non-high rise) and 7170-0026:250 (high rise) for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. Accepted for use – City of New York Department of Buildings – MEA35-93E. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Safety Products Westminster.

Control Panel Operation Reference

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



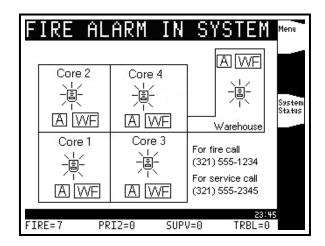


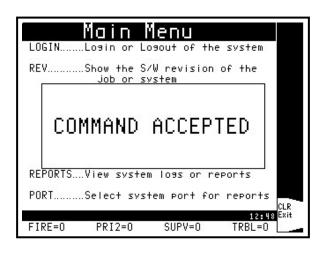
Site Plan with Event Icons

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 4100U 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.

Trouble Log	
ENTRY 6 12:00:04 an WED 01-AUG-06	
SYSTEM TIME/DATE INVALID OR NOT SET	
TROUBLE POINT ABNORMAL	
ENTRY 5 12:00:03 am WED 01-AUG-06	
COLD START	
TROUBLE POINT ABNORMAL	
ENTRY 4 12:00:02 am WED 01-AUG-06	
CARD 3- 4120 NETWORK INTERFACE	
CARD MISSING/FAILED ABNORMAL	
ENTRY 3 12:00:02 am WED 01-AUG-06	
COMMON TROUBLE POINT FOR NODE: 2	
NODE MISSING TROUBLE	
ENTRY 2 12:00:00 am WED 01-AUG-06	
CARD 4- MULTI-PURPOSE MONITOR CARD	
CARD MISSING/FAILED ABNORMAL	
	LR/ xit
TTC33 (NEAT/ OF CIREFICOS/ TO SCIOTI	
FIRE=0 PRI2=0 SUPV=0 TRBL=0	

Additional Primary Display Screens

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

FIRE ALARM IN SY	
Koncernations sectorized	
FIRST ALARM 11:43 AM 08/01/06 SMOKE DETECTOR	ABNORMAL
North Basement	Site
Most Recent Alarm	
12:41 PM 08/01/06 SMOKE DETECTOR 6th Floor East Corridor	ABNORMAL
Press 'Fire Ack' to acknowledge FIRE=12 PRI2=0 SUPV=0	12:45 TRBL=0

First and Most Recent Primary Display Option

International Display Details

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Toggle Language

Lamp Test

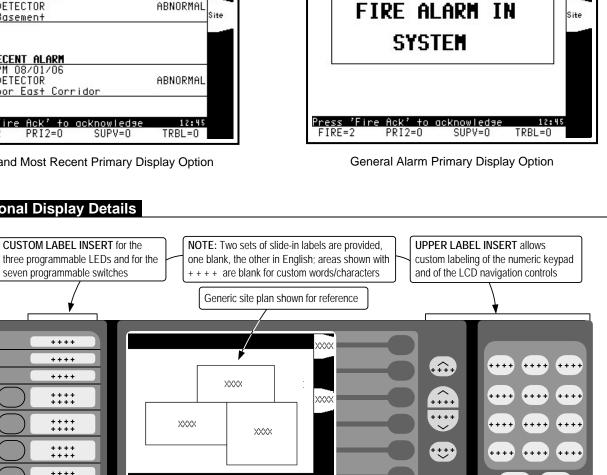
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LOWER LABEL INSERT allows custom labeling of the

six ACK/Silence/Reset switches and labeling of their

System Status

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)

Additional 4100U Data Sheet Reference

Data Sheet	Subject	Data Sheet	Subject	Data Sheet	Subject
S4100-0031	Standard Panel Reference	S4100-0035	MINIPLEX [®] Transponders	S4100-0034	Audio/Phone Modules
S4100-0036	Network Display Unit	S4081-0002	Remote Battery Charger	S4100-0032	LED/Switch Modules
S4100-0038	Remote Annunciators	S4100-0046	IDNet+ Module w/Quad Isolator	S4100-0037	Enclosure Options

XXXXX

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associated LEDs

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Product Selection

4100U Master Controller with InfoAlarm Command Center (see data sheet S4100-0031 for descriptions of the 4100U 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	1	—		Master Canterller Assembly reised by	9 A system power	
4100-9115	English		1	120 VAC, 60 Hz	Master Controller Assembly; raised keys with fixed labels	supply/battery charger (SPS),	
4100-9116	French		•			250 point IDNet interface,	
4100-9213	International	1	—	120 VAC, 60 Hz	Master Controller Assembly: flat keys	3 NACs, auxiliary relay, and external RUI communications	
4100-9212	International	\$	—	220/240 VAC, 50/60 Hz	with inserts for custom key labels	interface	
4100-9122	English	1	—	120 VAC, 60 Hz	Redundant CPU (Master Controller); raised keys with fixed labels	One Command Center, two CPU cards, and an SPS in a	
4100-9222	International	~	_	220/240 VAC, 50/60 Hz	Redundant CPU (Master Controller); flat keys with inserts for custom key labels RUI Expansion m		
Lin and a 1/							

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 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		
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	upgrades require: 4100-7157* Extended		
4100-7155	International	Upgrade Kit for existing 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)	Memory CPU and 4100-0640* Display		
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	Memory Expansion		
*4100-7157	157 Extended Memory CPU, required to upgrade NDU to InfoAlarm Command Center; included with InfoAlarm Command Center NDU models below; (single language NDU supports 12,000 points, bilingual NDU supports 9000 pts)				

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	1	—			Includes: 4100-7157 Ext. Memory		
4100-9153	English				120 VAC, 60 Hz	raised keys with fixed labels	CPU, 4100-0640 InfoAlarm Memory	
4100-9154	French		~			Expansion, Network Interface Module (select media cards separately), 9 A		
4100-9245	International	1	_	120 VAC, 60 Hz	NDU (Standard, Non-Voice) ; flat keys with inserts for			
4100-9243	International	~	_	220/240 VAC, 50/60 Hz	custom key labels	channel and NACs are disabled)		
4100-9152	English	1	-		NDU with Voice Interface	Includes above features and adds:		
4100-9155	English			120 VAC, 60 Hz	and Control; raised keys	VCC Bay with Standard CPU Module,		
4100-9156	French	_	~		with fixed labels	Network Interface Module (select		
4100-9246	International	1	_	120 VAC, 60 Hz	NDU with Voice Interface and Control; flat keys with	media cards separately), 9 A SPS with 250 Point IDNet Interface, (3) 3 A		
4100-9244	International	1	_	220/240 VAC, 50/60 Hz	inserts for custom key labels	NACs, and ext. RUI comm. interface		

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	>	1	With raised keys and fixed labels		Includes Expansion Bay with	
4100-9613	French		\		Remote	PDI, Remote TIC module;	
4100-9614	International	1	—	With flat keys & inserts for custom key labels	Annunciator	ower is supplied from host ontrol panel	
4100-9607	English	>	\	With raised keys and fixed labels	_	Includes Expansion Bay with	
4100-9608	French		\	With raised keys and fixed labels	Remote Annunciator	PDI, Remote TIC module; power supply is specified	
4100-9609	International	1	_	With flat keys & inserts for custom key labels		separately when configured	

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

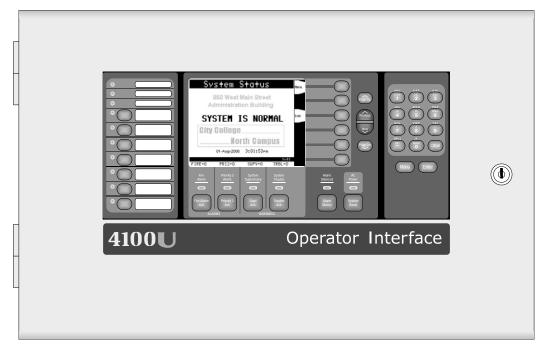
 Model
 Description

 *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

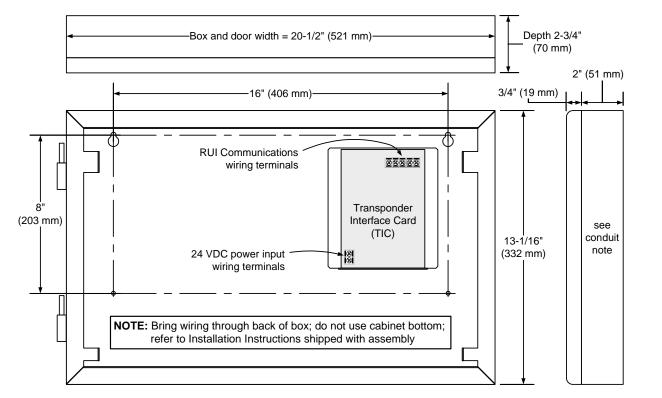
Product Selection (Continued)

Remote InfoAlarm Command Center Control Assembly with Cabinet for Surface Mounting							
Model Number/Cabinet Color		Application Type	Listing	Description			
Red	Beige	Аррисацой туре	Listing	Description			
4100-9401	4100-9402	English	UL & ULC	Remote InfoAlarm Command Center with cabinet ; for surface mounting; includes mounting box and door			
4100-9421	4100-9422	French/Canada	ULC	assembly with glass insert; uses RUI communications;			
4100-9441	4100-9442	International	UL	requires external 24 VDC system voltage; see illustrations below and Installation Instructions 579-687 for details			

Remote InfoAlarm Command Center Front View



Remote InfoAlarm Command Center Mounting Reference



General Display Specifications

General Display Specificat	Dot Matrix Siz	e 320 x 240		
	Active Displa	4.53" W x 3.4" H (115 mm x 86 mm), includes header, footer, and softkey		
Size Reference	Are	area; 5.66" diagonal measurement (144 mm)		
	Characte			
<u></u>	Designatio		s Array) display	
Display Polarizer Type		Transflective with rear backlight		
Display Adjustment		Contrast adjustment is located on the controller mod		
Backlight		White LEDs with intensity adjustment and selectable intensity adjustment is located on the controller mod	ule	
Backlighting Operation Options		On continuously; Off with AC power fail until a switch timeout without switch activity	n is pushed; selectable	
Control Panel Mounted Infe	oAlarm Comman	d Center Current Requirements		
Master Controllers (4100-9114, -	9115, Superviso			
-9116, -9212, -9213, -9222)	Alar	m 542 mA @ 24 VDC; backlight and tone-alert on		
Redundant CPUs	Superviso	y 782 mA @ 24 VDC		
(4100-9122, -9222)	Alar	m 964 mA @ 24 VDC; backlight and tone-alert on	Panel currents only	
Network Display Units, Non-Voi			are shown, add external device	
(4100-9151, -9153, -9154, -9243,	-9245) Alar		loading per system	
Network Display Units, Voice	Superviso	-	requirements	
(4100-9152, -9155, -9156, -9244,	-9246) Alar			
Upgrade Kits	153 & -7155 for 4100			
4100-7154 & -7	7156 for Legacy 4100	+ add 235 mA supervisory; add 280 mA for alarm		
Remote Annunciators with	InfoAlarm Com	nand Center, Powered from Control Panel		
Voltage		19 to 33 VDC (24 VDC nominal), system supplied; re	equires separate wiring	
Current	Superviso	y 186 mA @ 24 VDC		
Current	Alar	n 214 mA @ 24 VDC; backlight and tone-alert on	214 mA @ 24 VDC; backlight and tone-alert on	
Mounting Details; Stand-Alone (Cabinet Models	See page 6 for reference illustration		
	Тур	RUI (Remote Unit Interface) external annunciator communications line SLC (signaling line circuit)		
4100U Capacity,	Capaci	Up to 31 total remote RUI devices, including up to 10 InfoAlarm Command Center devices		
RUI Output	RUI Devic Reference Li	4100U: 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 4100U RUI information		
	Dat	a Single twisted, shielded pair, 18 AWG (0.82 mm ²)		
	Powe	er 18 to 12 AWG (0.82 mm ² to 3.31 mm ²) wires for 24	/DC system power	
Wiring Requirements	Ear	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		
		Lieundal Code) Anticle 250		
Custom Point Detail Messa	ages			
Custom Point Detail Messa Message Location Details	ages	Select "more info" softkey when investigating point of bottom of the information; typical messages might in (phone numbers, pager numbers, etc.) and other con information	clude contact details	
	ages	Select "more info" softkey when investigating point of bottom of the information; typical messages might in (phone numbers, pager numbers, etc.) and other co	clude contact details	
Message Location Details Number of Messages	ages Character Detai	Select "more info" softkey when investigating point of bottom of the information; typical messages might in (phone numbers, pager numbers, etc.) and other con information Up to 50	clude contact details ntact or reference	
Message Location Details		Select "more info" softkey when investigating point of bottom of the information; typical messages might in (phone numbers, pager numbers, etc.) and other con information Up to 50 s 120 characters; visible characters = 116; (lines 1 and return character and one line feed character) 3 lines total: 40 characters maximum por line; line 3	clude contact details ntact or reference d 2 require one carriage may be limited to 36	
Message Location Details Number of Messages Message Size	Character Detai	Select "more info" softkey when investigating point of bottom of the information; typical messages might in (phone numbers, pager numbers, etc.) and other coninformation Up to 50 s 120 characters; visible characters = 116; (lines 1 and return character and one line feed character) s 3 lines total; 40 characters maximum per line; line 3 visible characters in lines 1	clude contact details ntact or reference d 2 require one carriage may be limited to 36	

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