

SIEMENS

Fire Alarm Control Panel

Model FC2005/FC901

Programming Manual

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INTRODUCTION

The FC2005/FC901 Fire Alarm Control Panel can be configured on site. In FC2005/FC901 system, all system information is organized with the concept of the hardware tree, detection tree, control tree and dialer group. And the whole workflow of the system configuration and commissioning are also based on that.

- **Hardware tree:** The structure of physical tree is the representation of the hardware structure of an installation based on a fire alarm control panel. All the physical detectors, modules, HCP, NAC, DACT module, Power supply, System relays, CTLL, UFP are reflected in this hardware tree.
- **Detection tree:** The detection tree is the map of the geographical circumstances. It is composed by different zones. In order to make the panel report alarm, the channels of physical tree must be assigned to zone of detection tree. One zone can be the representation of one geographical area, for example, one room.
- **Control tree:** Control tree contains all the logical controls in the system. The zone of detection tree and the point of hardware tree can be the cause of the logical control, and the physical node on hardware tree can not be the logical input, e.g.: the activation of detectors. The output (effect) of the logical control must be the physical devices, e.g.: the NAC, relay control module or the on-board relays
- **Dialer group:** Dialer group is used to group the events in one or several zones and send the events to remote DACR. In this way, the events of protect promises will be sent out in dialer group level instead of zone level, which can reduce the quantities of events and make the information transmission more effective.

Hardware tree:

- **System Relays:** This module contains four common relays
 - Alarm relay: The relay will be activated when the Alarm event been reported in control panel.
 - Supervisory relay: The relay will be activated when the Supervisory event been reported in control panel.
 - Trouble relay: The relay will be activated when the Trouble event been reported in control panel.
 - Programmable relay: The active criteria of this relay can be programmed by user through control logic.
- **NAC: Notification Appliance Circuits**
 - The wired style of NAC loop can be configured as Class A or Class B.
- **Power Supply:** The power module of the control panel
 - Main power: The AC power supply.
 - Secondary power: The battery.
 - Auxiliary power: This auxiliary power can be configured as shut down on AC fail.
 - Resettable auxiliary power: The system will determine whether to shut down this auxiliary power according to the configuration when resetting.
 - Charger: The battery charger.
- **Addressable Loop:**
 - The control panel has one addressable device circuit which has the capacity for 50 addresses.

- DACT: The Digital Alarm Communication Transmitter board which will send control panel status data to a remote receiving station.
 - DACT Connection: DACT has two physical connections to PSTN, two telephone lines. One is the main connection and the other is used as backup connection.
 - DACT Network: The DACT has two accounts and each account can be configured separately.
- UFP: Serial Interface Circuit.
 - The serial interface circuit can address up to 8 devices, which includes annunciators and printers. Up to 2 printers can be addressed. Devices on the circuit may be connected up to 4000 feet from the control panel.
- CityTie/LeaseLine
 - CTLL is one optional module which can be mounted onto the mainboard of FC2005/FC901. If the module is installed and enabled in the hardware tree, the work mode of this output can be configured to City Tie or Lease Line.
- Program Key: the programmable key is used to execute the user defined and configured functions. Supported functions are: DACT bypass, Addressable device bypass, NAC bypass, Fire drill, Manual evacuation, Co test and Lamp test.

Detection tree:

The Detection tree contains the zones used for report different types of events. The supported zone types include:

- Manual alarm zone
- Automatic alarm zone
- Waterflow zone
- Supervisory zone
- Trouble zone
- Status zone
- AC Fail zone
- Gas zone

There are two default zones:

- Manual Alarm Zone1:
- Automatic Alarm Zone1:

The system will create a new zone for each new added channel automatically. User can add or delete the zones except the two default zones. If users delete a zone, the channels in the zone will be reassigned to the default zone according to the types.

Control tree:

The control tree contains all control logics. The causes of the control logic can be the control panel, zones and channels. The effects should be outputs, relays and NACs.

There are two default control logic:

- Control 1: There is no device in the cause and the effect is programmable relay.
- Adv. Control 1: The cause of the logic is the control panel. This control logic is used to realize the conditional activation of the City Tie, Lease Line, alarm/supervisory/trouble relays and the NACs. The criterion is configured at devices in effect.

Dialer Group:

The dialer group is only used for sending information through DACT. Dialer group groups events of the zones which assigned to it and report events as it self's. This means if multiple children report the same kind of events, dialer group will only report it once. Similarly, the restoral events should be sent only when all zones in the group restore this kind of events.

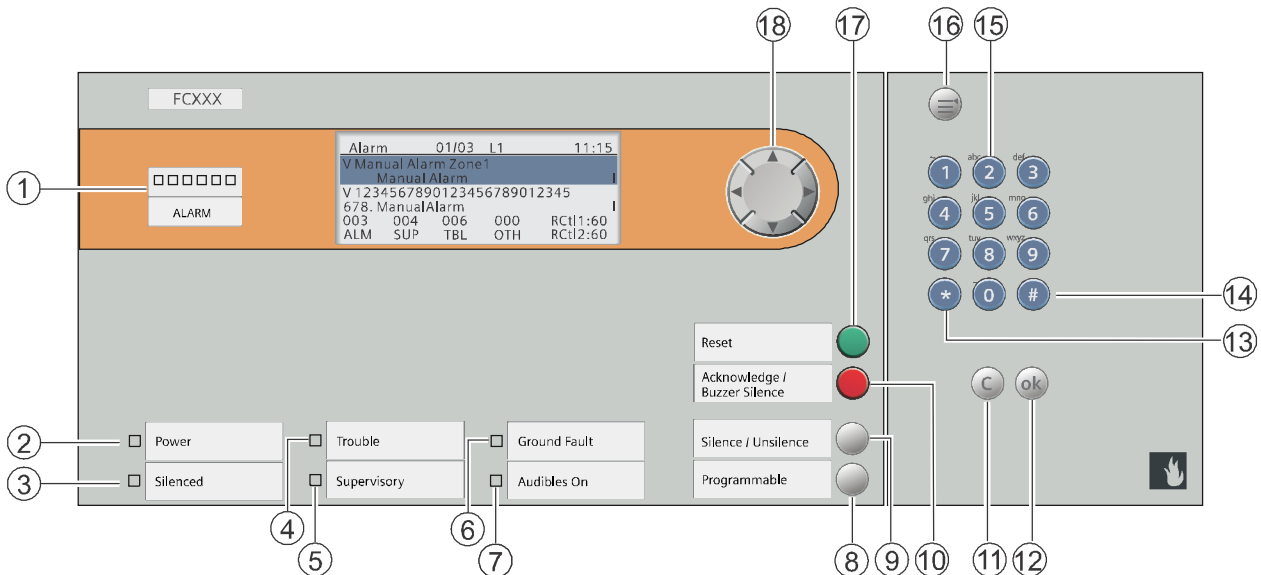
There is one default dialer group:

- New Dialer Group 1. The system will assign the default zones and every new created zone to the default dialer group.

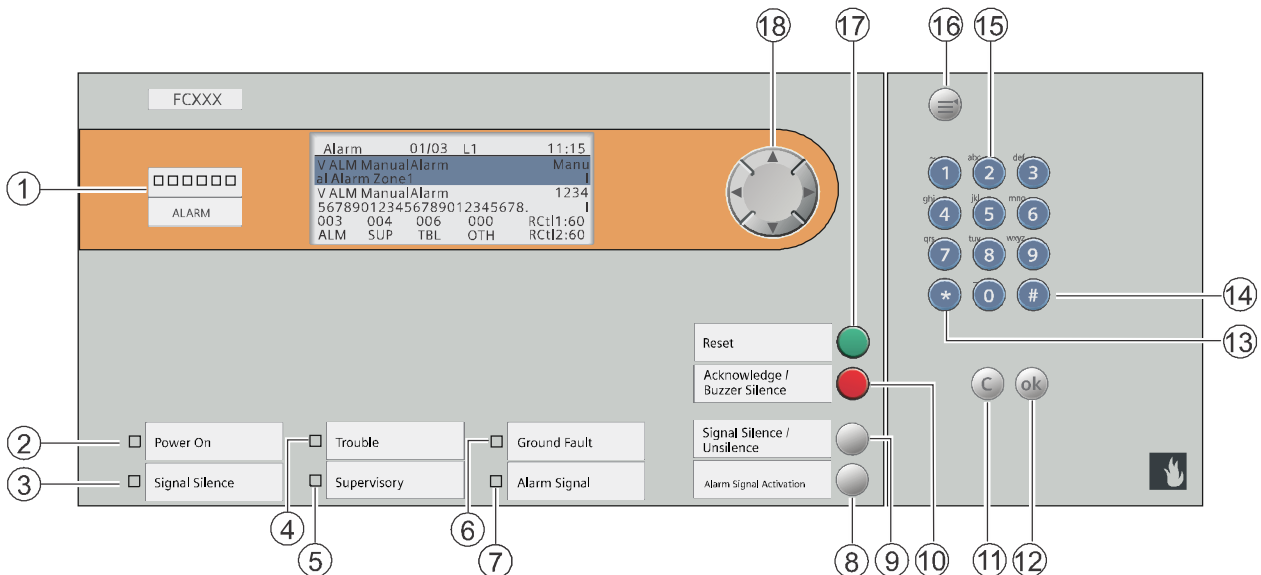
1. INTERFACE

The FC2005 has a buzzer, 7 LEDs, 4 navigational push buttons, 4 push buttons, alphanumeric keypad, 3 menu control buttons (menu, cancel and ok) and a communication port connector.

Panel in US



Panel in Canada



1.1 Communication Port Connector

The communication port is connected to the USB port of the computer that has the FXS901-U2 programming tool. This is used to upload and/or download panel configuration if this method of programming is used.

The computer must be disconnected from the panel if not in use.

1.2 LEDS, Buzzer and Dedicated Push Buttons

The LEDs operate as follows:

Item	LED		Color	Status	Description
1	Alarm		Red	Steady ON	There are alarm events, and all alarm events have been acknowledged.
				OFF	There is no alarm event in system.
				Flashing	There are alarm events in system, but some of them have not been acknowledged.
2	Power (US)	Power On (Canada)	Green	Steady ON	The system's power works normally. Both the main power and battery are in normal status.
				OFF	The system is not powered on. This LED can be OFF only when the system is shut down.
				Flashing	The main power is in trouble and system is powered via battery.
3	Silenced (US)	Signal Silence (Canada)	Yellow	Steady ON	All outputs which can be silenced are silenced.
				OFF	There are no silenced outputs in system.
				Flashing	Both silenced and unsilenced outputs exist.
4	Trouble		Yellow	Steady ON	There are trouble events, and all of them have been acknowledged.
				OFF	There is no trouble event in system.
				Flashing	There are trouble events in system, but some of them have not been acknowledged.
5	Supervisory		Yellow	Steady ON	There are supervisory events, and all of them have been acknowledged.
				OFF	There is no supervisory event in system.
				Flashing	There are supervisory events in system, but some of them have not been acknowledged.
6	Ground Fault		Yellow	Steady ON	There are Ground Fault events in system.
				OFF	There is no Ground Fault event in system.
				Flashing	There are ground fault events in system, but some of them have not been acknowledged.
7	Audible On (US)	Alarm Signal Activation (Canada)	Red	Steady ON	The LED 7 can only be steady on when any of the following conditions are met: 1. There are activated NACs and some of them are not silenced. 2. There are silenceable devices activated and some of them are not silenced.
				OFF	The LED 7 will be OFF when above conditions are not met.

The buzzer operates as follows:

Normally OFF – indicates that the system is in normal condition or all events in the system have been acknowledged.

ON (200 pulse per minute) – indicates that at least ONE unacknowledged alarm is present in the system.

ON (85 pulse per minute) – indicates that at least ONE unacknowledged non-alarm (trouble, supervisory) event is present in the system.

The buttons operates as follows:

Item	Button	Action	Description
8	Programmable (US)	Press	Press button 8 to execute user defined and configured functions.
	Alarm Signal Activation (Canada)		Press button 8 to report the alarm zone events to the panel.
9	Silence/Unsilence (US)	Press	The button toggles between silence and unsilence. Press button 9 to silence the audible and/or visual notification appliances (where permitted by the codes and control panel programming). The notification appliances will be de-activated, and the LED 3 will be off. Press button 9 again to unsilence the previously silenced notification appliances.
	Signal Silence/Unsilence (Canada)		
10	Acknowledge/Buzzer Silence	Press	Acknowledges all unacknowledged events in system.
17	Reset	Press	Clears all obsolete events and resets all devices, except those disabled ones and hold-through-reset devices in system.
11	C	Press	Cancel button for PMI operation.
12	OK	Press	OK button for PMI operation.
13	*	Press	* button for PMI operation.
14	#	Press	# button for PMI operation.
15	0-9	Press	Numeric buttons for PMI operation. They are used to enter the password to access the maintenance and technician modes of the panel. It allows the user to program the panel using these keypads without using the FXS901-U2 programming tool.
16	Menu	Press	Menu button for PMI operation.
18	Four-way button	Press	A four-way button for menu navigation.

1.3 LCD display

A 160 by 64 dot LCD display is used to display information such as event types, event amount, event location, user level, releasing timer, etc. A back light is included in the display to assure visibility in dim light. To save power, the back light is only activated during a reported event or on operation of a display control button. The LCD display has altogether 7 lines, and each line displays 26 characters. It displays two events at a time. Users can cycle through a circular list once the first event or last event message is reached.

1.3.1 LCD display in US

The text displays in the below graphic and table is just an example. The actual display corresponds to the actual situation.

Alarm	01/03	L1	11:15	①	
V Manual Alarm Zone1				②	
Manual Alarm				③	
V 1234567890123456789012345				④	
678. ManualAlarm				⑤	
003	004	006	000	RCt1:60	⑥
ALM	SUP	TBL	OTH	RCt2:60	⑦

Line	Current text	Description
1	Alarm	Current event type
	01/03	Current event/total events
	L1	Access level
	11:15	System time
2	V	Possible display: V: The event is acknowledged !: The event is unacknowledged
	Manual Alarm Zone1	Event location
3	Manual Alarm	Event type
	I	Possible display: I/O (in or out flag)
4	V	Possible display: V: The event is acknowledged !: The event is unacknowledged
	1234567890123456789012345	User defined (Max. 30 characters; see complete information together with the first 4 characters in line 5)
5	678.	Connects to the content in Line 4
	ManualAlarm	Event type
	I	Possible display: I/O (in or out flag)
6, 7	003 ALM	Alarm event amount
	004 SUP	Supervisory event amount
	006 TBL	Trouble event amount
	000 OTH	Other event amount
	RCt1:60 RCt2:60	Releasing timer and releasing count down time (60 s by default; Max. 60 s; DIS (discharge) is displayed after count down.)

1.3.2 LCD display in Canada

The text displays in the below graphic and table is just an example. The actual display corresponds to the actual situation.

Alarm	01/03	L1	11:15	①
V ALM ManualAlarm			Manu	②
al Alarm Zone1			I	③
V ALM ManualAlarm			1234	④
567890123456789012345678.			I	⑤
003	004	006	000	⑥
ALM	SUP	TBL	OTH	⑦
			RCtl1:60	
			RCtl2:60	

Line	Current text	Description
1	Alarm	Current event type
	01/03	Current event/total events
	L1	Access level
	11:15	System time
2	V	Possible display: V: The event is acknowledged !: The event is unacknowledged
	ALM	Current event type
	ManualAlarm	Specific current event type
	Manu	Connects to the content in line 3
3	al Alarm Zone1	Event location (see complete information together with the last 4 characters in line 2)
	I	Possible display: I/O (in or out flag)
4	V	Possible display: V: The event is acknowledged !: The event is unacknowledged
	ALM	Current event type
	ManualAlarm	Specific current event type
	1234	Connects to the content in line 2
5	567890123456789012345678.	User defined (Max. 30 characters; see complete information together with the last 4 characters in line 2)
	I	Possible display: I/O (in or out flag)
6, 7	003 ALM	Alarm event amount
	004 SUP	Supervisory event amount
	006 TBL	Trouble event amount
	000 OTH	Other event amount
	RCtl1:60 RCtl2:60	Releasing timer name and releasing count down time (60 s by default; Max. 60 s; DIS (discharge) is displayed after count down.)

1.3.3 Event displaying rules

Events are displayed according to the following rules:

1. Events priority:

Unacknowledged Alarm > Unacknowledged Supervisory > Unacknowledged Trouble > Acknowledged Alarm > Acknowledged Supervisory > Acknowledged Trouble > Status > Test

2. Within events of the same priority, all events are displayed in the order of occurrence the latest displayed the first.

3. Status events are displayed according to the event setting. If it is configured as "No display", it will not be listed in Event List.

When Supervisory is configured as Non-Self Restoring, a Supervisory OUT Event will be displayed in the event list when supervisory condition disappears. This also applies to Trouble and Status.

2. USER LEVEL

The following levels of security protect the system from unauthorized use:

L1 (User) – Locked Door

L2 (Maintenance) – Locked Door and 4-digit Maintenance Password

L3 (Technician) – Locked Door and 4-digit Technician Password

Table 2-1 user level list

Items	L1 (User)	L2 (Maintenance)	L3 (Technician)
View			
“Hardware”	√	√	√
“Detection”	√	√	√
“Control”	√	√	√
“Dialer group”	√	√	√
“History”	√	√	√
“About”	√	√	√
“Login”	√		
“Logout”		√	√
Operate			
“Active”		√	√
“Deactive”		√	√
“Disable”		√	√
“Enable”		√	√
“Quick test”		√	√
“Init. Q. Test”		√	√
“Cancel Q. Test”		√	√
“Extend Q. Test”		√	√
“Reset”		√	√
“Manned”		√	√
“Unmanned”		√	√
“Re-Startup”		√	√
“SLC Restore”		√	√
“Lamp test”	√	√	√
“Device test”		√	√
“Set time”		√	√
“Parameter”		√	√
“DeactPersistDevs”		√	√
“Clear History”		√	√
“Sensitivity report”		√	√
“Reset Factory Setting”		√	√
Configure			
“Save configure”			√
“Delete”			√
“Create”			√

Table 2-2 Functionality user level list for Canadian panel

Items	L1 (User)	L2 (Maintenance)	L3 (Technician)
<i>Trouble Signal Silence</i>	√	√	√
Acknowledge Switches	√	√	√
Automatic <i>Alarm Signal Silence</i> Timer Adjust			√
<i>Alarm Signal Silence</i> Operation	√	√	√
<i>Alarm Signal Silence</i> Inhibit Timer			√
Fire Alarm System Reset	√	√	√
<i>Control Unit</i> Visual Indicator Test	√	√	√
Disable Fire Alarm Devices		√	√
Change User Text			√
Set Time And Date		√	√

2.1 Login

- 1. Press “Menu” to display the main menu (Fig. 2-1).
- 2. Press “↓” to select “Login” and press “OK”, the password entry screen is displayed (Fig. 2-2).
- 3. Enter the password of maintenance level or technician level and press “OK”, login successfully if the password is correct. The top right corner displays the new level “L2” or “L3”.

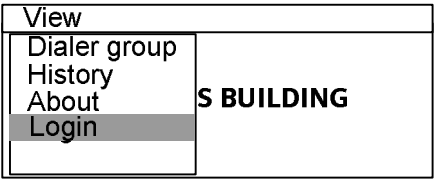


Fig. 2-1

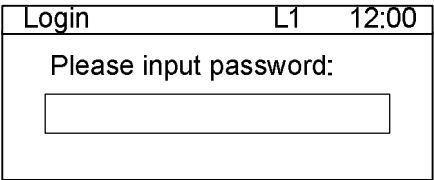


Fig. 2-2

Note:

- Default password: 1234 for L2 and 4321 for L3. Password can be changed.
- System logs out automatically after 3 times of wrong entries.

2.2 Logout

There are two ways to logout:

- Logout automatically: System automatically logs out to L1 if no operations take place during a preset login time. (System login time can be set by system timer.)
- Log out manually:

- 1. Press “Menu” to display the main menu (Fig. 2-3).
- 2. Press “↓” to select “Logout” and press “OK”, the logout screen is displayed (Fig. 2-4).
- 3. Press “OK” to confirm to logout to Level 1; Press “C” to cancel the logout operation.

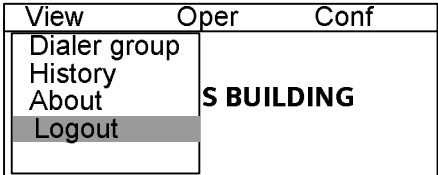


Fig. 2-3

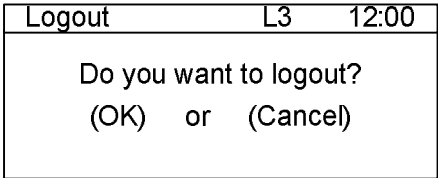


Fig. 2-4

Note:

Users can directly login L2/3 from L1; but if the current user level is L2, you have to logout to L1 and then login to L3. It is same for L3.

3. ALPHANUMERIC CHARACTER ENTRY

Numerals entry:

Press numeral key, then the numeral is entered.

Letters entry:

Letters are entered using numerals key. Press down the numeral key which includes the letter (shown at the upper left corner of key), all included letters (upper case and lower case) and the numeral will be orderly and repeatedly displayed. When the needed letter is displayed, release the key, the needed letter is entered. (i.e., how to enter "S", press down numeral "7" key, the numeral "7" and letters "P"/"p"/"Q"/"q"/"R"/"r"/"S"/"s" will be displayed orderly and repeatedly. When "S" is displayed, release the key and "S" is entered.)

Punctuation marks entry:

Press down numeral "1" key, the punctuation marks "." / "," / ";" / ":" / "@" / "#" will be displayed orderly and repeatedly. When the needed mark is displayed, release the key and the needed mark is entered.

Press "←"/"→" to move the cursor forward and backward.

Press "↑" to delete the previous character of the cursor.

Press "↓" to delete the backward character of the cursor.

Button	Inputting characters
0	0
1	"1"/"."/"/","/"/";"/"/":"/"/"@"/"/"#"
2	"2"/"/"A"/"/"a"/"/"B"/"/"b"/"/"C"/"/"c"
3	"3"/"/"D"/"/"d"/"/"E"/"/"e"/"/"F"/"/"f"
4	"4"/"/"G"/"/"g"/"/"H"/"/"h"/"/"I"/"/"i"
5	"5"/"/"J"/"/"j"/"/"K"/"/"k"/"/"L"/"/"l"
6	"6"/"/"M"/"/"m"/"/"N"/"/"n"/"/"O"/"/"o"
7	"7"/"/"P"/"/"p"/"/"Q"/"/"q"/"/"R"/"/"r"/"/"S"/"/"s"
8	"8"/"/"T"/"/"t"/"/"U"/"/"u"/"/"V"/"/"v"
9	"9"/"/"W"/"/"w"/"/"X"/"/"x"/"/"Y"/"/"y"/"/"Z"/"/"z"

OPERATION

1. HOW TO VIEW PROPERTY

Function: This feature allows user to view device property.

Steps:

- 1. Select an element by navigating hardware tree or detection tree (i.e., NAC) (Fig. 4-1).

Hardware	L1	12:00
FC2005		
System Relays		
NAC		
Power Supply		
Addressable Loop		

Fig.4-1

- 2. Press “OK” to pop out a menu (Fig. 4-2).

Hardware	L1	12:00
View	Relays	
	Supply	
	sable Loop	

Fig.4-2

- 3. Select “View” and press “OK”, the property is displayed (Fig. 4-3).

Property	L1	12:00
Name:		
NAC		

Fig. 4-3

- 4. Press “C” to quit equipment property query and return to previous screen.

2. HOW TO VIEW HISTORY

Function: A panel includes a non-volatile memory recording 1000 system events. Identified alarm, trouble, supervisory, status and other significant events will be recorded along with the date and time of occurrence. This feature allows user to view these events.

Steps:

1. Press "Menu" to display the main menu (Fig. 5-1).

View	
Hardware	S BUILDING
Detection	
Control	
Dialer group	
History	

Fig.5-1

2. Press "↓" to select "History" item and press "OK", all history events are displayed in order of occurrence time (Fig. 5-2).

History	288	L1	12:00
01	Open	10-21-2010	15:00:
02	Acknowledge	10-21-2010	
03	Unacknowledge	10-21-20	
04	Acknowledge	10-21-2010	
05	Open	10-21-2010	15:00:
06	Open	10-21-2010	15:00:

Fig.5-2

3. Press "↓"/"↑" to navigate a history event and press "OK". The detail information is displayed (Fig. 5-3).

History	288	L1	12:00
01	IN		
	Open		
	NAC		
	10-21-2010	15:00:09	

Fig.5-3

4. Press "C" to return to previous screen.

Search:

Step 1 and step 2 is same as above.

3. Press "Menu" to display "Option" menu (Fig. 5-4) and press "OK" to display search items (Fig. 5-5). There are two kinds of items: type and time.

Type: There are six kinds of type: alarm, trouble, supervision, status, test, disable. Press "↓"/"↑" to navigate one type and press "OK", all history events of the type are listed.

Time: Select "From" and press "OK" to enter starting time; Select "To" and press "OK" to enter ending time; Select "Confirm" and press "OK", all events which occur during the period are listed.

Option	
Search	12-03 15:00:09
	12-03 15:00:10
	12-03 15:00:11
	12-03 15:00:12
	12-03 15:00:13
	12-03 15:00:14

Fig.5-4

Search	L1	12:00
Type		
From		
To		
	confirm	

Fig.5-5

3. HOW TO DISABLE/ENABLE

Function: This feature allows devices to be disabled for service. A trouble condition is annunciated whenever the disable feature is used and cleared when enabled.

Note: Disabled device cannot send any message to controller.

Steps to disable (i.e., disable a NAC device):

- 1. Select a device by navigating hardware tree (Fig. 6-1).

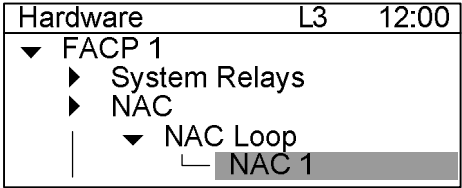


Fig.6-1

- 2. Press “Menu” to display the main menu (Fig. 6-2).

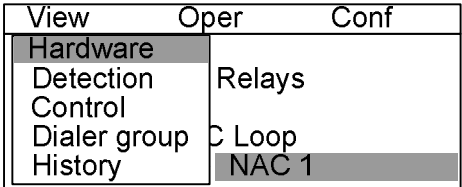


Fig.6-2

- 3. Press “→” to select “Oper” submenu (Fig. 6-3). Press “↓” to select “Disable” and then press “OK”. A warning screen is displayed (Fig. 6-4).

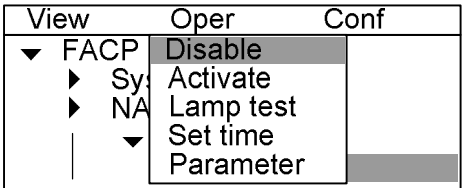


Fig.6-3

- 4. Press “OK” to disable the device.

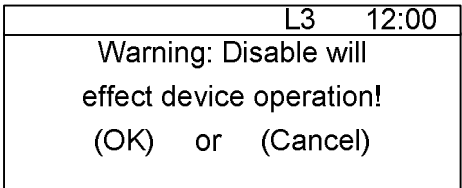


Fig.6-4

Steps to enable:

Same as the steps to disable. The only difference is to select “Enable” instead of “Disable” in step 3.

4. HOW TO ACTIVATE/DEACTIVATE

Function: Any output (i.e., control module, NAC devices etc.) can be activated/deactivated through controller manually.

Steps to activate (i.e., NAC activate):

1. Select a device (NAC) by navigating hardware tree (Fig. 7-1).

Hardware	L3	12:00
▼ FACP		
▶ System Relays		
▶ NAC		
▼ NAC Loop		
└─ NAC 1		

Fig.7-1

2. Press “Menu” to display the main menu (Fig. 7-2).

View	Oper	Conf
Hardware		
Detection	Relays	
Control		
Dialer group	C Loop	
History	NAC 1	

Fig.7-2

3. Press “→” to select “Oper” submenu (Fig. 7-3). Press “↓” to select “Activate” and press “OK” to activate the device.

View	Oper	Conf
▼ FACP	Disable	
▶ Sys	Activate	
▶ NA	Lamp test	
▼	Set time	
	Parameter	

Fig.7-3

Steps to deactivate:

Same as the steps to activate. The only difference is to select “Deactivate” instead of “Activate” in step 3.

5. HOW TO DO QUICK TEST

Function: To test installation quickly and easily. The installed device can be activated and NACs can be activated for a short period of time. The quick test menu allows user to configure quick test parameters. User can stop the quick test manually. Quick test mode will automatically quit when the quick test time is out.

The following parameters can be configured before doing quick test:

Parameters	Description	Value	Default
Quick Test Time	Set the time interval of system quick test. The FACP will quit automatically Quick Test mode after the configured time expires. When quick test ends, FACP will reset all events automatically.	{Min.: 5; max.: 30;}	30
Disable Output	Set if the output is disabled during quick test. If it is configured as True, FACP will not activate any output on events in Quick Test mode. If it is configured as False, output can be activated manually or automatically in Quick test mode.	{True; False}	True
Annunciator Off	Set if the annunciator is off during quick test. If it is configured as True, no events in Quick Test mode will be forwarded to annunciators. If it is configured as False, events in Quick Test mode will be forwarded to annunciators as configured.	{True; False}	False
History Off	Set if the history is off during quick test. If it is configured as True, no events in Quick Test mode will be recorded in history. If it is configured as False, events in Quick Test mode will be recorded in history.	{True; False}	False
NAC Off	Set if the NAC is off during quick test. If it is configured as True, NAC shall not respond to any events in Quick Test mode. If it is configured as False, NAC shall respond as configured in Quick Test mode.	{True; False}	False

Steps:

1. Press “Menu” to display the main menu (Fig. 8-1).
2. Press “→” to select “Oper” submenu, press “↓” to select “Quicktest” (Fig. 8-2) and press “OK”, then the quick test configure screen is displayed (Fig. 8-3).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer Group		
History		

Fig. 8-1

View	Oper	Conf
SIEM	Reset	
	Quicktest	
	Manned	
	Lamp test	
	Set time	

Fig.8-2

3. Select “Quick Test Time” and press “OK”, then the current setting is displayed (Fig. 8-4). Enter a new setting and press “OK”, then the setting is finished and system returns to the previous screen. The other parameters of quick test can be changed the same as above.

Quick Test	L3	12:00
Quick Test Time		
Disable Output		
Annunciator Off		
History Off		
NAC Off		

Fig.8-3

Start quick test:

4. Press “Menu” to display the “Init. Q.Test” item (Fig. 8-5). Press “OK” to start the quick test. The system time will display quick test time and start counting down until “0” is reached(Fig. 8-6). User can now test the initiating devices.

	L3	12:00
Quick Test Time		
30	minutes	
Range (5 - 30)		

Fig.8-4

Stop quick test:

5. Press “Menu” to display the main menu, press “→” to select “Oper” submenu, press “↓” to select “Cancel Q. Test” and press “OK” to stop the quick test (Fig. 8-7). Panel reverts to standby mode.

Option
Init.Q.Test

Fig.8-5

Extend quick test:

6. Press “Menu” to display the main menu, press “→” to select “Oper” submenu, press “↓” to select “Extend Q. Test” and press “OK” to extend the quick test time. Quick test will re-start from the beginning of the setting time.

	L3	29:33
--	----	-------

Fig.8-6

View	Oper	Conf
Quick Test	Reset	
Disable Ou	Manned	
Annunciato	Cancel Q. Test	
History Off	Extend Q. Test	
NAC Off	Lamp test	

Fig.8-7

6. HOW TO DO DEVICE TEST

Function: Before doing device test on site, set device as test mode so that alarm will be released faster.

Steps for device test:

1. Select a device by navigating hardware tree (Fig. 9-1).

Hardware	L3	12:00
▶ Power Supply		
▼ Addressable Loop		
▼ Line 1		
▶ HFPT-11 @1		
▶ HFPT-11 @2		

Fig.9-1

2. Press “Menu” to display the main menu (Fig. 9-2).

View	Oper	Conf
Hardware	ply	
Detection	able loop	
Control		
Dialer group	PT-11@1	
History	T-11@2	

Fig.9-2

3. Press “→” to select “Oper” submenu (Fig. 9-3). Press “↓” to select “Device Test” and press “OK” to set the device as test mode and it will be shown under realtime event list. You can view device property (Fig. 9-4). The device test parameter is set as “True”.

View	Oper	Conf
▼ FC200	Disable	
▶ Sys	Device Test	
▶ NA	Lamp test	
▼	Set time	
	Parameter	

Fig.9-3

Steps for Quit Device Test:

Same as the steps to device test. The only difference is to select “Quit D.Test” instead of “Device Test” in step 3 (Fig. 9-5). The device test event will disappear under realtime event list.

Proprety	L1	12:00
LED Normal Off:		
False		
DevTest:		
True		

Fig.9-4

View	Oper	Conf
▼ FC200	Disable	
▶ Sys	Quit D.Test	
▶ NA	Lamp test	
▼	Set time	
	Parameter	

Fig.9-5

7. HOW TO DO SHORT RECOVERY/ RE-STARTUP

Function: short recovery is to recover SLC line short trouble; Re-startup can be clear all events on P2 line and start up P2 line.

Steps for short recovery:

1. Short trouble is displayed (Fig. 10-1).

Trouble	01/03 L3	12:00
V Short Line 1	10-27-2011 14:14:54	
V Open NAC 1	10-27-2011 14:14:21	

Fig.10-1

2. Select SLC line by navigating hardware tree (Fig. 10-2).

Hardware	L3	12:00
▶ NAC		
▶ Power Supply		
▼ Addressable Loop		
▼ Line 1		

Fig.10-2

3. Press “Menu” to display the main menu (Fig. 10-3).

View	Oper	Conf
Hardware		
Detection	Supply	
Control	ssable Loop	
Dialer group	ne 1	
History		

Fig.10-3

4. Press “→” to select “Oper” submenu (Fig. 10-4). Press “↓” to select “SLC restore” and press “OK”, short will be recovered and SLC line will be re-startup (Fig. 10-5).

View	Oper	Conf
▼ FACP	Disable	
▶ Po	Re-startup	
▶ Ad	SLC restore	
▼	Lamp test	
	Set time	

Fig.10-4

Steps for re-startup:

Same as the steps for SLC restore. The only difference is to select “Re-startup” instead of “SLC restore” in step 4.

L3	12:00
SLC is re-starting...	

Fig.10-5

8. HOW TO SWITCH ON/OFF BUZZER

Function: To turn on/off buzzer. Only user level 3 can do it.

Steps:

- 1. Press “Menu” to display the main menu (Fig. 11-1).
- 2. Press “→” to select “Oper” submenu (Fig. 11-2), press “↓” to select “Parameter” and press “OK”, the edit parameter screen is displayed (Fig.11-3).
- 3. Press “↓” to select “Buzzer On” and press “OK”, the current setting is displayed. Press “↓” to select “False”/“True” (Fig. 11-4) and press “OK” to change the setting and return to previous screen. Panel will save the configuration file automatically.
- 4. Do “Save Configure” refer to chapter 15.

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer Group		
History		

Fig.11-1

View	Oper	Conf
SIEM	Quicktest	
	Manned	
	Lamp test	
	Set time	
	Parameter	

Fig.11-2

Edit Para.	L3	12:00
Name		
Buzzer On		
Maintenance Password		
Technician Password		
Reset Inhibit Time		
TRB/SUP Reminder		

Fig.11-3

Edit Para.	L3	12:00
False		
True		

Fig.11-4

9. HOW TO SET TIME

Function: To configure the date and time of the system and the display format.

Steps:

- 1. Press “Menu” to display the main menu (Fig.12-1).
- 2. Press “→” to select “Oper” submenu (Fig.12-2), press “↓” to select “Set time” and press “OK”. The Date&Time parameter screen is displayed (Fig.12-3).
- 3. Select “TimeFormat” to set the preferred time format (Fig.12-4).
- 4. Select “System Time” to change the system time (Fig.12-5).
- 5. Enter new time and press "OK" to finish time setting and return to previous screen (Fig.12-6).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer Group		
History		

Fig.12-1

View	Oper	Conf
SIEM	Quicktest	
	Manned	
	Lamp test	
	Set time	
	Parameter	

Fig.12-2

Date&Time	L3	12:00
TimeFormat		
SystemTime		

Fig.12-3

Date&Time	L3	12:00
24 hours		
12 hours (AM/PM)		

Fig.12-4

Date&Time	L3	12:00
TimeFormat		
SystemTime		

Fig.12-5

Date&Time	L3	12:00
<div>10-21-2010 12:00:00</div>		

Fig.12-6

10. HOW TO CHANGE PASSWORD

Function: To change the maintenance and technician password for security.

Steps:

1. Press "Menu" to display the main menu (Fig.13-1).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer Group		
History		

Fig.13-1

2. Press "→" to select "Oper" submenu (Fig.13-2), press" ↓ " to select "Parameter" and press "OK", then the edit parameter screen is displayed (Fig.13-3).

View	Oper	Conf
SIEM	Quicktest	S
	Manned	
	Lamp test	
	Set time	
	Parameter	

Fig.13-2

3. Press " ↓ " to select "Maintenance Password" or "Technician Password" and press "OK", then the password entry screen is displayed (Fig.13-4).

Edit Para.	L3	12:00
Name		
Buzzer On		
Maintenance Password		
Technician Password		
Reset Inhibit Time		
TRB/SUP Reminder		

Fig.13-3

4. Enter new password and press "OK" to finish setting and return to previous screen.

		L3	12:00
Please input text :			
<div></div>			

Fig.13-4

11. HOW TO DO LAMP TEST

Function: Use lamp test to check whether the LCD, LEDs and the buzzer work. When the lamp test is activated, the LCD, LEDs and the buzzer are all turned on. Lamp test quits automatically when it finishes.

Steps:

1. Press "Menu" to display the main menu (Fig.14-1).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.14-1

2. Press "→" to pop out the "Oper" submenu (Fig.14-2), press "↓" to select "Lamp Test" and press "OK" to perform the lamp test.

View	Oper	Conf
SIEM	Reset	
	Quicktest	
	Manned	
	Lamp test	
	Set time	

Fig.14-2

12. HOW TO SAVE CONFIGURE

Function: To save changes permanently, otherwise the changes will be lost when the system is restarted.

Steps:

1. Press "Menu" to display the main menu (Fig.15-1).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.15-1

2. Press "→" to select "Conf" submenu (Fig.15-2), press "OK" to display the configuration saving window (Fig.15-3).

View	Oper	Conf
SIEMENS BU		Save config

Fig.15-2

3. Press "OK" to confirm saving change and return to previous screen.

Save config	L3	12:00
Save configuration? (OK) or (Cancel)		

Fig. 15-3

13. HOW TO EDIT PARAMETER

Function: To modify parameters of device and panels. See Appendix table 1 for parameters details.

Steps:

1. To Select an element (i.e., NAC1) by navigating hardware tree or detection tree (Fig.16-1).

Hardware	L3	12:00
▼ FACP 1		
▶ System Relays		
▶ NAC		
▼ NAC Loop		
└─ NAC 1		

Fig.16-1

2. Press “OK” to pop out a menu (Fig.16-2).

Hardware	L3	12:00
Edit		
View	Relays	
	C Loop	
	NAC 1	

Fig.16-2

3. Select “Edit” and press “OK” to display edit parameter screen (Fig.14-3). All configurable parameters are listed (Fig.16-4).

4. Press “↓”/”↑” to select one item which need to be edited and press “OK”, the detailed items are listed. Press “↓”/”↑” to select one kind of device and press “OK” to finish editing. Panel will save the configuration file automatically and return to previous screen.

Edit Para	L3	12:00
DeviceType		
Silenceable		
HoldThroughReset		

Fig.16-3

Edit Para	L3	12:00
Strobe		
Audible		
Strobe/audible		

Fig.16-4

14. HOW TO CREATE/DELETE LOGIC CONTROL

Function: To create/delete logic control among detection group, supervision group and control output group.

Steps of creating:

1. Press “Menu” to display the main menu (Fig.17-1).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.17-1

2. Press “↓” to select “Control” item and press “OK” (Fig.17-2), logic expression screen is displayed (Fig.17-3).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.17-2

3. Press “Menu” to display the main menu, press “→” to select “Conf” submenu, to select “Create” and press “OK” (Fig.17-4). Create screen is displayed (Fig.17-5). There are two parameters (type and name) which need to be configured.

Control	L3	12:00
▼ FACP 1		
▶ Control 1		
▶ Adv.Control 1		

Fig.17-3

4. To select “Type” and press “OK”, 5 types (Basic Control, Advanced Control, Control LED, Control test and Control Mimic) are listed (Fig.17-6). Press “↓”/”↑” to select a right type and press “OK”, the screen returns to the previous screen and the selected type is shown (Fig.17-7).

View	Oper	Conf
▼ FACP 1		Create
▶ Control 1		Save config
▶ Adv.Control		

Fig.17-4

5. To select “Name” and press “OK”, an input text screen is displayed (Fig.17-8). To enter a right name (i.e., “Siemens1”) and press “OK”, the screen returns to the previous screen and the new logic expression name is shown (Fig.17-9).

Create	L3	12:00
Type		
Name		
	confirm	

Fig.17-5

6. To select “confirm” and press “OK”, the new logic control is created and shown (Fig.17-10).

Steps of deleting:

7. Select a logic control which needs to be deleted, then press “Menu” and press “→” to select “Conf” submenu. Press “↓” to select “Delete” and press “OK” (Fig. 17-11), then the deleting confirming screen is displayed (Fig. 17-12). Press “OK” to confirm deleting the logic control or press “C” to cancel.

Create	L3	12:00
Basic Control		
Advanced Control		

Fig.17-6

Create	L3	12:00
Type: Control Fire		
Name		
confirm		

Fig.17-7

L3		12:00
Please input text:		
<input type="text" value="Siemens1"/>		

Fig.17-8

Create	L3	12:00
Type: Control Fire		
Name: Siemens1		
confirm		

Fig.17-9

Control	L3	12:00
▼ FC2005		
▶ New Control Fire 1		
▶ New Control Notify 1		
▶ Siemens1		

Fig.17-10

View	Oper	Conf
▼ FC2005		Delete
▶ New Control		Save config
▶ New Control		
▶ Siemens1		

Fig.17-11

Delete	L3	12:00
Do you want to delete? (OK) or (Cancel)		

Fig.17-12

15. HOW TO EDIT LOGIC CONTROL

Function: To edit logic control.

Steps:

1. Press “Menu” to display the main menu (Fig.18-1).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.18-1

2. Press “↓” to select “Control” item (Fig.18-2) and press “OK”, all logic expressions are listed (Fig.18-3).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.18-2

3. Press “↓” to select a logic expression (i.e., “Siemens1”) and press “→”, “Cause (OR)” and “Effect” are listed (Fig.18-4).

Control	L3	12:00
▼ FACP 1		
▶ Control 1		
▶ Adv. Control 1		
▶ Siemens 1		

Fig.18-3

4. Select “Cause (OR)” item and press “OK”, Fig 18-5 is shown. Select “Edit” and press “OK”, edit screen is displayed (Fig 18-6). There are two parameters which need to be configured (Fig.18-7/8/9/10).

Press “C” to return to the previous screen. “Effect” is created automatically when a output device is created under hardware tree. It can not be edited, just can be viewed.

Control	L3	12:00
▼ Siemens1		
▶ Cause (OR)		
▶ Effect		

Fig.18-4

Control	L3	12:00
Edit		
View		
	Control 1	

Fig.18-5

Edit Para.	L3	12:00
CauseInvert		
CauseCalculation		

Fig.18-6

Edit Para.	L3	12:00
OR		
AND		
SUM		

Fig.18-7

Control	L3	12:00
▼ Siemens1		
▶ Cause		
└─ New Manua		
▶ Effect		
└─ DEF		

Fig.18-8

Edit Para.	L3	12:00
ActivationDelay		
DeactivationDelay		

Fig.18-9

16. HOW TO CREATE/DELETE DIALER GROUP

Function: Dialer Group is used to reduce the number of messages reported to supervising station. For example: if two zones both detect alarm condition but they are close to each other, sending one piece of alarm message will be enough to inform the supervising station, meanwhile, this behavior can reduce costs. There is one dialer group by default. Newly created zones are added automatically to the default dialer group. Physical devices are not included in dialer group. They are reported as system level messages.

Steps of creating:

1. Press “Menu” to display the main menu (Fig.19-1).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.19-1

2. Press “↓” to select “Dialer group” item and press “OK” (Fig. 19-2), dialer group screen is displayed (Fig.19-3).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.19-2

3. Press “Menu” to display the main menu, press “→” to select “Conf” submenu, to select “Create” and press “OK” (Fig.19-4) , create screen is displayed (Fig.19-5). There are two parameters (type and name) which need to be configured.

Dialer Group	L3	12:00
▼ DialerGroup Config		
▶ New DialerGroup 1		

Fig.19-3

4. To select “Type” and press “OK”, one default type (dialer group) is listed (Fig.19-6). Press “OK”, the screen returns to the previous screen and the selected type is shown (Fig.19-7).

View	Oper	Conf
▼ DialerGroup C	Create	Save config
▶ New Dialer		

Fig.19-4

5. To select “Name” and press “OK”, an input text screen is displayed. To enter a right name (i.e., “Siemens1) and press “OK”, the screen returns to the previous screen and the new name is shown (Fig.19-8).

Create	L3	12:00
Type		
Name	confirm	

Fig.19-5

6. To select “Confirm” and press “OK”, the new dialer group is created and shown (Fig.19-9).

Steps of deleting:

7. To select a dialer group which need to be deleted, press” Menu” and press “→” to select “Conf” submenu, to select “Delete” and press “OK” (Fig.19-10), deleting confirming screen is displayed (Fig.19-11). Press “OK” to confirm to delete the dialer group or press”C” to cancel to delete the dialer group.

Create	L3	12:00
DialerGroup		

Fig.19-6

Create	L3	12:00
Type: DialerGroup		
Name		
confirm		

Fig.19-7

Create	L3	12:00
Type: DialerGroup		
Name: Siemens1		
confirm		

Fig.19-8

Dialer Group	L3	12:00
▼ DialerGroup Config		
▶ New DialerGroup 1		
▶ Siemens 1		

Fig.19-9

View	Oper	Conf
▼ DialerGroup Co		Delete
▶ New Dialer		Save config
└ Siemens 1		

Fig.19-10

Delete	L3	12:00
Do you want to delete?		
(OK) or (Cancel)		

Fig.19-11

17. HOW TO ASSIGN

Function: To assign a channel to a zone for logic control; To assign a zone to cause (OR) for logic control.

Steps to assign a zone to cause (OR):

1. Press “Menu” to display the main menu (Fig. 20-1).

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.20-1

2. Press “↓” to select “Detection” item (Fig. 20-2), Press "OK" to display the detection screen.

View	Oper	Conf
Hardware	S BUILDING	
Detection		
Control		
Dialer group		
History		

Fig.20-2

3. Select a zone which need to be assigned and press “Menu” to display the main menu, press “→” to select “Conf” submenu, to select “Assign” and press “OK” (Fig. 20-3) , assign screen is displayed (Fig. 20-4). All group which can be assigned to are listed.

View	Oper	Conf
▼ FACP 1		Assign
▶ New Manua		Save config
▶ New Autom		

Fig. 20-3

4. Press “↓”/”↑” to select a proper group and press “OK”, assigning is finished and detection zone is shown under control screen.

Assign	L3	12:00
Siemens 1		

Fig. 20-4

Control	L3	12:00
▼ Siemens1		
▶ Cause		└ New Manua
▶ Effect		└ DEF

Fig. 20-5

Steps to assign a channel to a zone:

The process is same as above. Just select a channel from hardware tree and assign to a zone under detection tree.

18. HOW TO GET SYSTEM VERSION

Function: To show system edition, download time of configuration file and modification time.

Steps:

1. Press "Menu" to display the main menu, press "↓" to select "About" item (Fig. 21-1).

View	
Control	S BUILDING
Dialer group	
History	
About	
Login	

Fig.21-1

2. Press "OK" to display the help information window (Fig. 21-2).

About	L1	12:00
F/W Version: 01.00.09(24)		
Product Variant: DESIGO		
Configuration file		
Download(MM-DD-YY):		

Fig. 21-2

3. Press "C" to return to the previous screen.

19. HOW TO SET SYSTEM TIMER

Function: This option allows the user to set the following system timer parameters:

Timer	Description	Value Scope	Default	Min. Step
Reset Inhibit Time	Sets the time the user is prevented from resetting the system after alarm annunciation.	{min:0;max:6;}	0	1min
Trouble/supervisory Remind Time	Sets the time interval at which trouble/supervisory events are re-announced if these events were previously acknowledged. 0 means close this function.	{min:0;max:30;}	24	1h
AC Fail Delay	Sets the delay time to submit the "AC fail" trouble event to remote output (DACT, On-board common trouble relay output, City tie output)	{min:1;max:24;}	24	1h
Auto Silence On	Set the auto silence timer on or off. If the timer is on, all the silenceable output will be silenced after the "Auto Silence Time" is expired. If the timer is off, the auto silence timer is not worked.	{True;False;}	True	-
Auto Silence Time	Sets the time the silenceable output will automatically silence itself after alarm sounding.	{min:5;max:30;}	30	1min
Silence Inhibit Time	Sets the time within which the silenceable output must be activated.	{min:0;max:240;}	0	1s
Login Time	Sets the time no operation occurs before FACP exits to level 1.	{min:1;max:30;}	1	1min
LCD ShutDown Time	Sets the time no operation or event occurs before LCD turns off its back light. 0 means never shut down LCD.	{min:0;max:60;}	60	1min
Supervisory Latching	Set if the supervisory event is latched. If it's latched, the supervisory event can be restored only when system is reset. If it's not latched, the supervisory event can be disappeared as soon as the signal is out.	{True;False;}	False	-
SUP Self Restoring	Set if the supervisory events can be removed from event list after it disappears. If it is set as False, a Supervisory Restoral event will be created and appended in event list on the event disappears. If it is set as True, the supervisory even can be disappeared on the signal is out.	{True;False;}	True	-
Trouble Self Restoring	Set if the trouble events can be removed from event list after it disappears. If it is set as False, a Trouble Restoral event will be created and appended in event list on the event disappears. If it is set as True, the trouble even can be disappeared on the signal is out.	{True;False;}	True	-
Display Status	Set whether to display Status events on FACP	{True;False;}	True	-

	or not.			
Status Self Restoring	Set if the status events can be removed from event list after it disappears. If it is set as False, a Status Restoral event will be created and appended in event list on the event disappears. If it is set as True, the status even can be disappeared on the signal is out.	{True;False;}	True	-
Log Status	Set whether to log Status events on FACP.	{True;False;}	True	-

Steps:

1. Press “Menu” to display the main menu (Fig. 22-1).

View	Oper	Conf
Hardware Detection Control Dialer group History	BUILDING	

Fig.22-1

2. Press “→” to select “Oper” submenu (Fig.22-2). Press “↓” to select "Parameter" and then press “OK”. All editable parameters are listed (Fig.22-3).

View	Oper	Conf
SIEM	Quicktest Manned Lamp test Set time Parameter	

Fig.22-2

3. Press “↓” to select a timer which needs to be set (i.e., “Reset Inhibit Time”). Press “OK”, the current setting is displayed (Fig. 22-4).

Edit Para.	L3	12:00
Name		
Buzzer On		
Maintenance Password		
Technician Password		
Reset Inhibit Time		
TRB/SUP Reminder		

Fig.22-3

4. Enter a new setting, Press “OK”. The setting is finished and system returns to the previous screen.

	L3	12:00
Reset Inhibit Time		
	0	minutes
Range (0 - 6)		

Fig.22-4

20. HOW TO CONFIGURE A NEW SYSTEM

1. After all of the devices, notification appliances and option modules have been installed, check all wiring for grounds, shorts and opens.
2. Confirm all wirings are security and switch power on. Panel will recognized all connected devices and show them under hardware tree. All loop devices are assigned to detection tree and dialer group automatically. The output devices (i.e., output module, NACs, relays) are assigned to Effect under control tree automatically.
3. Configure the new system:
 - Configure Hardware tree: set up a number of overall system parameters, include:
 - System relays
 - NAC
 - Power supply
 - Addressable loop
 - DACT
 - Serial Interface Circuit
 - Configure Detection tree: set up input zone.
 - Configure Control tree: set up control logic. The basic concept is that input zones are assigned to “Cause” as control inputs. The inputs are set to have a certain behavior and activate Effect outputs. Refer to “How to create/delete logic control”.
 - Configure Dialer Group: set up dialer group.
4. When finish the setting of a new system, save configure and restart the panel, the new system can run.

APPENDIX 1 PARAMETER LIST

Equipment type	Editable item	Parameter description
Panel – FC2005/FC901	Name	Name of the panel
	Name addition	Addition description of the device; max. 20 characters
	Buzzer on L3	Bool: True (default) / False
	Maintenance Password	Default: 1234
	Technician Password	Default: 4321
	Manned	Bool: True (default) / False
	Supervisory Latching	Bool: True / False (default)
	SUP Self Restoring	Bool: True (default) / False
	Trouble Self Restoring	Bool: True (default) / False
	Display Status	Bool: True (default) / False
	Status Self Restoring	Bool: True (default) / False
	Log Status	Bool: True (default) / False
	Ack method	All Block One By One
	Time Format	Option 1: 24 hours (default) Option 2: 12 hours (AM/PM)
	Reset Inhibit Time(min)	Min:0; Max:6 Default value is 0.
	TRB/SUP Reminder(hour)	Min:0; Max:30 Default value is 24.
	AC Fail Delay(hour)	Min:1; Max:24 Default value is 24.
	Auto Silence On	Bool: True (default) / False
	Auto Silence Time	Min:5; Max:30 Default value is 30.
	Silence Inhibit Time(sec)	Min:0; Max:240 Default value is 0.
	Login Time(min)	Min:1; Max:30 Default value is 30.
	LCD ShutDown Time(min)	Min:0; Max:60 Default value is 60.
	Alarm Remind Time(hour)	Min:1; Max:24 Default value is 24.
	Quick Test Time(min)	Min:5; Max:30 Default value is 30.

	Disable Output	Bool: True (default) / False
	Disable Audiblebase	Bool: True (default) / False
	Annunciator Off	Bool: True / False(default)
	LED Annunciator Off	Bool: True / False(default)
	Printer Off	Bool: True / False(default)
	History Off	Bool: True / False(default)
	NAC Mode	OFF (default) ON AUTO
	DACT off	Bool: True (default) / False
Alarm relay Supervisory relay Trouble relay	Silenceable	Bool: True (default) / False
	HoldThroughReset	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
Programmable relay	Silenceable	Bool: True (default) / False
	Silenceable On Waterflow	Bool: True (default) / False
	HoldThroughReset	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
NAC loop	Wire Style	Option 1: Class A Option 2: Class B (default)
NAC Channel (NAC1 and NAC 2)	Audible Base Powering	Bool: True / False (default)
	Device Type	Option 1: Strobe (default) Option 2: Audible Option 3: Strobe / audible
	Bell code	Only when device type is audible, the follow options are available. Option 1: Steady (default) Option 2: ANSI temporal (3 pulse) Option 3: March Time 30 Pulse (Per minute) Option 4: March Time 60 Pulse (Per minute) Option 5: March Time 120 Pulse (Per minute)
	Silenceable	Bool: True (default) / False
	Silenceable On Waterflow	Bool: True / False (default)
	Strobes Keep Flashing	Bool: True / False (default) (only when the device type is strobe/audible.)
	HoldThroughReset	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
Auxiliary Power	Shut On ACFail	Bool: True (default) / False
Resettable Auxiliary Power	Resettable	Bool: True (default) / False
	Shut On ACFail	Bool: True (default) / False

Line 1	Wire Style	Option 1: Class A Option 2: Class B (default)
HZM	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED normal off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Alarm Verification (channel)	Bool: True / False (default)
HFPT-11	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50. System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Enable RateofRise (HeatSensor)	Bool: True / False (default)
	Silenceable (output channel)	Bool: True (default) / False
	Silenceable On Waterflow (output channel)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
HFP-11	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50. System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Drift Compensation	Bool: True (default) / False
	Turn Off	Bool: True / False (default)
	ASD Setting (SmokeHeatSensor)	Set the device application scenario. Users can choose "off" or select one scenario from the drop down list.
	Sensitivity (SmokeHeatSensor)	Range: 2.45% (default)...3.27%; select an option from the list. Available when "ASD Setting" is set to "off".
	Alarm Verification (SmokeHeatSensor)	Bool: True / False (default) Available when "ASD Setting" is set to "off".
	Silenceable (output channel)	Bool: True (default) / False
	Silenceable On Waterflow (output channel)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False

	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
HFPO-11	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50. System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Drift Compensation	Bool: True (default) / False
	Turn Off	Bool: True / False (default)
	Sensitivity (SmokeSensor)	Range: 2.45% (default)...3.27%; select an option from the list.
	Alarm Verification (SmokeSensor)	Bool: True / False (default)
	Silenceable (output channel)	Bool: True (default) / False
	Silenceable On Waterflow (output channel)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
HMS-S HMS-D HMS-M HMS-2S	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50. System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
HTRI-D HTRI-S	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50. System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Input Closed (Input)	Bool: True / False (default)
	Normally Open (Input)	Bool: True (default) / False
HTRI-R	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50. System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
	Input Closed (Input)	Bool: True / False (default)
	Normally Open (Input)	Bool: True (default) / False
	Silenceable (output channel)	Bool: True / False (default)

	Silenceable On Waterflow (output channel)	Available when “Silenceable” (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
HTRI-M	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50. System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
	Input Closed (Input)	Bool: True / False (default)
	Normally Open (Input)	Bool: True (default) / False
HCP	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50. System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
	Silenceable (Intelligent Control)	Bool: True (default) / False
	Silenceable On Waterflow (Intelligent Control)	Available when “Silenceable” (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (Intelligent Control)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
OOH941 OOHC941 (Only available for FC901)	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED normal off	Bool: True / False (default)
	LED Activation	Input Only (default) Input or Output
	Audible Base Type	Unknown (default) ABHW-4B ABHW-4S
	Buzzer Base Powering	Available when “ABHW-4B” is selected for “Audible Base Type”: Detection Line Powered NAC Powered AUX/DC Powered (default)
	Speaker Base Powering	Available when “ABHW-4S” is selected for “Audible Base Type”: NAC Powered AUX/DC Powered (default)
	Turn Off	Bool: True/ False (default)

	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
	Multi Criteria Usage (OOT/OOTC Channel)	Option 1: ASD (default) Option 2: Photoelectric (alarm) Option 3: Off
	Multi Criteria Setting (OOT/OOTC Channel)	Set the device application scenario. Users can select one scenario from the drop-down list. Only available when "Multi Criteria Usage" is set as "ASD".
	Photoelectric Setting (OOT/OOTC Channel)	Only available when "Multi Criteria Usage" is set to "Photoelectric(alarm)". Select one option from the drop-down list.
	Thermal Alarm Usage (OOT/OOTC Channel)	Option 1: Thermal Evaluation(default) Option 2: Off
	Thermal Alarm Setting (OOT/OOTC Channel)	Select an option from the drop down list. ROR: rate of rise
	Silenceable (output channel)	Bool: True (default) / False
	Silenceable On Waterflow (output channel)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
	Volume (Pri1/2. AudibleControl)	Maximum Volume (default) Medium Volume
	ToneType (Pri1/2. AudibleControl)	Select one tone type from the drop-down list
	Silenceable (Pri1/2. AudibleControl)	Bool: True (default) / False
	Silenceable On Waterflow (Pri1/2. AudibleControl)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (Pri1/2. AudibleControl)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
FDOOT441 FDOOTC441 (Only available for FC2005)	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED normal off	Bool: True / False (default)
	LED Activation	Input Only (default) Input or Output
	Audible Base Type	Unknown (default) ABHW-4B ABHW-4S

	Buzzer Base Powering	Available when “ABHW-4B” is selected for “Audible Base Type”: Detection Line Powered NAC Powered AUX/DC Powered (default)
	Speaker Base Powering	Available when “ABHW-4S” is selected for “Audible Base Type”: NAC Powered AUX/DC Powered (default)
	Turn Off	Bool: True/ False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
	Multi Criteria Usage (OOT/OOTC Channel)	Option 1: ASD (default) Option 2: Photoelectric (alarm) Option 3: Off
	Multi Criteria Setting (OOT/OOTC Channel)	Set the device application scenario. Users can select one scenario from the drop-down list. Only available when “Multi Criteria Usage” is set as “ASD”.
	Photoelectric Setting (OOT/OOTC Channel)	Only available when “Multi Criteria Usage” is set to “Photoelectric(alarm)”. Select one option from the drop-down list.
	Thermal Alarm Usage (OOT/OOTC Channel)	Option 1: Thermal Evaluation(default) Option 2: Off
	Thermal Alarm Setting (OOT/OOTC Channel)	Select an option from the drop down list. ROR: rate of rise
	Silenceable (output channel)	Bool: True (default) / False
	Silenceable On Waterflow (output channel)	Available when “Silenceable” (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
	Volume (Pri1/2. AudibleControl)	Maximum Volume (default) Medium Volume
	ToneType (Pri1/2. AudibleControl)	Select one tone type from the drop-down list
	Silenceable (Pri1/2. AudibleControl)	Bool: True (default) / False
	Silenceable On Waterflow (Pri1/2. AudibleControl)	Available when “Silenceable” (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (Pri1/2. AudibleControl)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
FDCIO422	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters

	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True/ False (default)
	LED Activation	Input Only (default) Input or Output
	Wire Style	Option 1: Class A Option 2: Class B (default)
	Turn Off	Bool: True/ False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
	Input Closed (input channel)	Bool: True/ False (default)
	Normally Open (input channel)	Bool: True (default) / False
	Monitoring (input channel)	Option 1: Open Only (default) Option 2: Open and short
	Sensoractivationdelay (input channel)	Range: 0.25 s (default)...240 s (select one option from the list)
	Silenceable (output channel)	Bool: True/ False (default)
	Silenceable On Waterflow (output channel)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	Normally Open (output channel)	Bool: True (default) / False
	Signal Shape (output channel)	Static (default) Pulse
	Pulse Mode (output channel)	Available when "Signal Shape" (output channel) is set to "Pulse". Range: 1...20 s Select one option from the drop-down list.
	Failsafe Position (output channel)	Off (default) Inactive Active
	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
OP921 (Only available for FC901)	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True/ False (default)
	LED Activation	Input Only (default) Input or Output
	Audible Base Type	Unknown (default)

		ABHW-4B ABHW-4S
	Buzzer Base Powering	Available when “ABHW-4B” is selected for “Audible Base Type”: Detection Line Powered NAC Powered AUX/DC Powered (default)
	Speaker Base Powering	Available when “ABHW-4S” is selected for “Audible Base Type”: NAC Powered AUX/DC Powered (default)
	Turn Off	Bool: True/ False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
	Sensitivity (SmokeSensor)	Option 1: Sensitive 1.40%/ft Option 2: Standard 1.80%/ft Option 3: Robust 2.30%/ft (default) Option 4: Duct 2.30%/ft
	Alarm Verification (SmokeSensor)	Bool: True / False (default)
OH921 (Only available for FC901)	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True/ False (default)
	LED Activation	Input Only (default) Input or Output
	Audible Base Type	Unknown (default) ABHW-4B ABHW-4S
	Buzzer Base Powering	Available when “ABHW-4B” is selected for “Audible Base Type”: Detection Line Powered NAC Powered AUX/DC Powered (default)
	Speaker Base Powering	Available when “ABHW-4S” is selected for “Audible Base Type”: NAC Powered AUX/DC Powered (default)
	Turn Off	Bool: True/ False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
	Multi Criteria Usage (SmokeHeatSensor)	Option 1: Multi-criteria (default) Option 2: Off

	Multi Criteria Setting (SmokeHeatSensor)	Option 1: Sensitive 1.40%/ft Option 2: Standard 1.80%/ft Option 3: Robust 2.30%/ft (default) Available when "Multi Criteria Usage" is set to "Multi-criteria".
	Alarm Verification (SmokeHeatSensor)	Bool: True/ False (default) Available when "Multi Criteria Usage" is set to "Multi-criteria".
	Thermal Alarm Usage (SmokeHeatSensor)	Option 1: Thermal Evaluation (default) Option 2: Off
	Thermal Alarm Setting (SmokeHeatSensor)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 135° F + ROR 15° F
HI921 (Only available for FC901)	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True/ False (default)
	LED Activation	Input Only (default) Input or Output
	Audible Base Type	Unknown (default) ABHW-4B ABHW-4S
	Buzzer Base Powering	Available when "ABHW-4B" is selected for "Audible Base Type": Detection Line Powered NAC Powered AUX/DC Powered (default)
	Speaker Base Powering	Available when "ABHW-4S" is selected for "Audible Base Type": NAC Powered AUX/DC Powered (default)
	Turn Off	Bool: True/ False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
	Temperature Setting (HeatSensor)	Select an option from the drop-down list
FDO421 (Only available for FC2005)	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True/ False (default)
	LED Activation	Input Only (default) Input or Output
	Audible Base Type	Unknown (default) ABHW-4B ABHW-4S
	Buzzer Base Powering	Available when "ABHW-4B" is selected for "Audible Base Type":

		Detection Line Powered NAC Powered AUX/DC Powered (default)
	Speaker Base Powering	Available when “ABHW-4S” is selected for “Audible Base Type”: NAC Powered AUX/DC Powered (default)
	Turn Off	Bool: True/ False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
	Sensitivity (SmokeSensor)	Option 1: Sensitive 1.40%/ft Option 2: Standard 1.80%/ft Option 3: Robust 2.30%/ft (default) Option 4: Duct 2.30%/ft
	Alarm Verification (SmokeSensor)	Bool: True / False (default)
FDT421 (Only available for FC2005)	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True/ False (default)
	LED Activation	Input Only (default) Input or Output
	Audible Base Type	Unknown (default) ABHW-4B ABHW-4S
	Buzzer Base Powering	Available when “ABHW-4B” is selected for “Audible Base Type”: Detection Line Powered NAC Powered AUX/DC Powered (default)
	Speaker Base Powering	Available when “ABHW-4S” is selected for “Audible Base Type”: NAC Powered AUX/DC Powered (default)
	Turn Off	Bool: True/ False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
	Temperature Setting (HeatSensor)	Select an option from the drop-down list
FDOT421 (Only available for FC2005)	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once

		a device is added.
	LED Normal Off	Bool: True/ False (default)
	LED Activation	Input Only (default) Input or Output
	Audible Base Type	Unknown (default) ABHW-4B ABHW-4S
	Buzzer Base Powering	Available when “ABHW-4B” is selected for “Audible Base Type”: Detection Line Powered NAC Powered AUX/DC Powered (default)
	Speaker Base Powering	Available when “ABHW-4S” is selected for “Audible Base Type”: NAC Powered AUX/DC Powered (default)
	Turn Off	Bool: True/ False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
	Multi Criteria Usage (SmokeHeatSensor)	Option 1: Multi-criteria (default) Option 2: Off
	Multi Criteria Setting (SmokeHeatSensor)	Option 1: Sensitive 1.40%/ft Option 2: Standard 1.80%/ft Option 3: Robust 2.30%/ft (default) Available when “Multi Criteria Usage” is set to “Multi-criteria”.
	Alarm Verification (SmokeHeatSensor)	Bool: True/ False (default) Available when “Multi Criteria Usage” is set to “Multi-criteria”.
	Thermal Alarm Usage (SmokeHeatSensor)	Option 1: Thermal Evaluation (default) Option 2: Off
	Thermal Alarm Setting (SmokeHeatSensor)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 135° F + ROR 15° F
ILED-HC ILED-HW	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
ILED-HC/HW: ILED channel	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Silenceable	Bool: True / False (default)
	HoldThroughReset	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
XTRI-R XTRI-S XTRI-D	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once

XTRI-M		a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
XTRI-R/S/D/M: Input	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Input Closed	Bool: True / False (default)
	Normally Open	Bool: True (default) / False
	Monitoring	Option 1: Open Only (default) Option 2: Open and short
	SensorActivationDelay	Range: 0.25 s (default)...240 s (select one option from the list)
XTRI-R/S/D/M: Output channel	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Silenceable	Bool: True (default) / False
	Silenceable On Waterflow	Bool: True (default) / False
	Failsafe Position	Normal (default) Off-Normal Retain
	HoldThroughReset	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
XMS-S	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as well.
ILED-XC ILED-XW	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Isolator Support	When set as True, the device should be wired according to the rules for isolator supported. Otherwise, the panel reports trouble. When set as False (default), the device should be wired as polar non-sensitive. Otherwise, the panel reports trouble as

		well.
ILED-XC ILED-XW: ILED Channel	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Silenceable	Bool: True (default) / False
	Silenceable On Waterflow	Bool: True (default) / False
	HoldThroughReset	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
ILED-SC ILED-SW	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
ILED-SC ILED-SW: ILED Channel	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Silenceable	Bool: True (default) / False
	Silenceable On Waterflow	Bool: True (default) / False
	HoldThroughReset	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
8700 (Only available for UL type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
8701 (Only available for UL type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
	Input Closed (Input)	Bool: True / False (default)
	Normally Open (Input)	Bool: True (default) / False
8702 8703 (Only available for UL type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Input Closed (Input)	Bool: True / False (default)
	Normally Open (Input)	Bool: True (default) / False
8704	Name	Name of the device

(Only available for UL type panel)	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
	Input Closed (Input)	Bool: True / False (default)
	Normally Open (Input)	Bool: True (default) / False
	Silenceable (output channel)	Bool: True (default) / False
	Silenceable On Waterflow (output channel)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
8705 (Only available for UL type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Alarm Verification (Convention)	Bool: True / False (default)
8706 (Only available for UL type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
	Silenceable (Intelligent Control)	Bool: True (default) / False
	Silenceable On Waterflow (Intelligent Control)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (Intelligent Control)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
8710 (Only available for UL type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Drift Compensation	Bool: True (default) / False
	Sensitivity (SmokeSensor)	Range: 2.45% (default)...3.27%; select an option from the list.
	Alarm Verification	Bool: True / False (default)

	(SmokeSensor)	
	Silenceable (output channel)	Bool: True (default) / False
	Silenceable On Waterflow (output channel)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
8712 (Only available for UL type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Enable RateofRise (HeatSensor)	Bool: True / False (default)
	Silenceable (Output Channel)	Bool: True (default) / False
	Silenceable On Waterflow (Output Channel)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (Output Channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
8713 (Only available for UL type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50
	LED Normal Off	Bool: True / False (default)
	Drift Compensation	Bool: True (default) / False
	Turn Off	Bool: True / False (default)
	ASD Setting (SmokeHeatSensor)	Set the device application scenario. Users can choose "off" or select one scenario from the drop down list.
	Sensitivity (SmokeHeatSensor)	Range: 2.45% (default)...3.27%; select an option from the list. Available when "ASD Setting" is set to "off".
	Alarm Verification (SmokeHeatSensor)	Bool: True / False (default) Available when "ASD Setting" is set to "off".
	Silenceable (output channel)	Bool: True (default) / False
	Silenceable On Waterflow (output channel)	Available when "Silenceable" (output channel) is set as True. Bool: True (default) / False
	HoldThroughReset (output channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
8726 (Only available for UL type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50
	LED Normal Off	Bool: True / False (default)

	Turn Off	Bool: True / False (default)
	Silenceable (ILED Channel)	Bool: True (default) / False
	Silenceable On Waterflow (ILED Channel)	Bool: True (default) / False
	HoldThroughReset (ILED Channel)	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
SMS-S SMS-2S (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
SMS-S/2S: Manual sensor (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
SFPO-11 SFP-11 (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
	Drift Compensation	Bool: True (default) / False
SFPO-11: SmokeSensor (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Sensitivity	Range: 2.45% (default)...3.27%; select an option from the list.
	Alarm Verification	Bool: True / False (default)
SFP-11: SmokeHeatSensor (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Sensitivity	Range: 2.45% (default)...3.27% Users can select an option from the list. It is not selectable when ASD setting is not set to OFF
	ASD Setting	Set the device application scenario. Users can choose "off" or select one scenario from the drop down list.
	Alarm Verification	Bool: True / False (default)
SFPT-11 (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
SFPT-11: HeatSensor	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters

(Only available for ULC type panel)	Enable RateOfRise	Bool: True / False (default)
STRI-D STRI-S (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
STRI-D STRI-S: Input (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Input Closed	Bool: True / False (default)
	Normally Open	Bool: True (default) / False
STRI-R STRI-M (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	Turn Off	Bool: True / False (default)
STRI-R STRI-M: Input (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Input Closed	Bool: True / False (default)
	Normally Open	Bool: True (default) / False
STRI-R: Output channel (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Silenceable	Bool: True (default) / False
	Silenceable On Waterflow	Bool: True (default) / False
	HoldThroughReset	Device won't be reset when press Reset button on the panel. Bool: True / False (default)
SZM (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	LED Normal Off	Bool: True / False (default)
	Turn Off	Bool: True / False (default)
SZM: Convention (Only available for ULC type panel)	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Alarm Verification	Bool: True / False (default)
PAD5	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...50; System assigns one address automatically once a device is added.
	AC Type	PSC170 (default) PSC300

	Charger Disable	True: use external charger False (default): use onboard charging circuit
	GFault Disable	Ground fault supervisory Bool: True / False (default)
	Turn Off	Bool: True / False (default)
DACT connection	Dialing Mode	Option 1: Pulse Option 2: Tone (default)
DACT network	Dialer Usage	Option 1: Serial Dialer (default) Option 2: Relay Dialer
DACT account	Format Type	Option 1: SIA DCS 8 (default) Option 2: SIA DCS 20 Option 3: Ademco Contact ID Option 4: 3/1 1400Hz Option 5: 3/1 2300Hz Option 6: 4/2 1400Hz Option 7: 4/2 2300Hz
	Number Of Attempts	Effective value: 5-10 Default value is 5.
	Account ID Phone Number	Max. Length: 6; Character Set: "0-9"
	CIC Dialing Prefix Test Time	Character Set:"0-9" Min. Length: 0; Max. Length: 8;
	Report Alarm	Option 1: Must (default) Option 2: Can Option 3: Must Not
	Report Alarm Restoral	Option 1: Must (default) Option 2: Can Option 3: Must Not
	Report Trouble	Option 1: Must (default) Option 2: Can Option 3: Must Not
	Report Trouble Restoral	Option 1: Must (default) Option 2: Can Option 3: Must Not
	Report Supervisory Restoral	Option 1: Must (default) Option 2: Can Option 3: Must Not
	Report Test	Bool: True (default) / False
UFP Line	Wire Style	Option 1: Class A (default) Option 2: Class B
FT2007	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	Address	Range: 1...8; System assigns one address automatically once a device is added.
	Location	Option: Stub A, Stub B When the wiring style of UFP line is selected as Class B, then if

		user selects Stub A in the tool, the device must connect to Stub A (primary port) as well on the panel, otherwise, error occurs. It doesn't matter if the wiring style is Class A.
FT2007: System LED	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	System LED List	Reset, Acknowledge (default), Silence, Audibles On, Trouble, Ground Fault
FT2007: Input	Name	Name of the device
	Name Addition	Addition description of the device; max. 20 characters
	InputType	Generic (default), System Input
	Button List	Only available when System Input is selected for InputType: Reset (default), Acknowledge, Silence\Unsilence, Lamp Test
FT2008 FT2009 FT2018 FT2019	Name	Name of the device
	Name Addition	Additional description of the device; max. 20 characters
	Address	Range: 1...8; System assigns one address automatically once a device is added.
	Local device	Bool: True / False (default)
	Location	Option: Stub A, Stub B When the wiring style of UFP line is selected as Class B, then if user selects Stub A in the tool, the UFP device must be installed on the Stub A (primary port) on the panel, otherwise, the UFP device will not be detected by the panel. It doesn't matter if the wiring style is Class A.
UFP annunciator	Name	Name of the device
	Address	Addition description of the device; max. 20 characters
	Report Alarm	Bool: True (default) / False
	Report Supervisory	Bool: True (default) / False
	Report Trouble	Bool: True (default) / False
	Report Status	Bool: True (default) / False
	Location	Option: Stub A, Stub B When the wiring style of UFP line is selected as Class B, then if user selects Stub A in the tool, the UFP device must be installed on the Stub A (primary port) on the panel, otherwise, the UFP device will not be detected by the panel. It doesn't matter if the wiring style is Class A.
Printer	Name	Name of the device
	Address	Addition description of the device; max. 20 characters
	Supervision	Bool: True (default) / False
	Report Alarm	Bool: True (default) / False
	Report Supervisory	Bool: True (default) / False
	Report Trouble	Bool: True (default) / False
	Report Status	Bool: True (default) / False
	Location	Option: Stub A, Stub B When the wiring style of UFP line is selected as Class B, then if user selects Stub A in the tool, the UFP device must be installed

		on the Stub A (primary port) on the panel, otherwise, the UFP device will not be detected by the panel. It doesn't matter if the wiring style is Class A.
CTLL	Work Mode	Option 1: CityTie (default) Option 2: LeaseLine
Manual Alarm Zone	Name	Name of the zone
	Name Addition	Additional description of the device; max. 20 characters
	Alarm Delay	No
	Delay Time	Min.:60; Max.:180 Default value is 60. Selectable only when "alarmdelay" is not "no".
	Display Sequence Events	Bool: True / False (default)
	Manual Evac	Bool: True / False (default)
Automatic Alarm Zone	Name	Name of the zone
	Name Addition	Additional description of the device; max. 20 characters
	Alarm Delay	No
	Display Sequence Events	Bool: True / False (default)
Supervisory Zone Waterflow Zone Trouble Zone Gas Zone ACFail Zone	Name	Name of the zone
	Name Addition	Additional description of the device; max. 20 characters
	Display Sequence Events	Bool: True / False (default)
Control 1	Name	Name of the control
Cause(OR)	CauseInvert	Bool: True / False (default)
	Causecalculation	Option 1: OR (Default) Option 2: AND Option 3: SUM
Effect (Programmable relay)	ActivationDelay	Min:0; Max:180 Default value is 0.
	DeactivationDelay	Min: 0; Max:180 Default value is 0.
	Ignore Reset Command	Bool: True / False (default)
Adv. Control 1	Name	Name of the control
Effect (Under Advanced Control)	ActivationDelay	Min:0; Max:180 Default value is 0.
	DeactivationDelay	Min: 0; Max:180 Default value is 0.
	Ignore Reset Command	Bool: True / False (default)
	NotificationEventType	Option 1: Alarm(default) Option 2: Trouble

		Option 3: Supervisory Option 4: Waterflow Option 5: Any
User Control	Name	Name of the control
	Access level	L1, L2, L3
	Control Mode	Latching (default) Momentary
	Momentary Duration (sec)	Range: 1...180 s Only available when Control Mode is set to "Momentary".
RCtl in ULC mode	Name	Name of the releasing control
	Release Countdown(sec)	Releasing count down timer Range: 10...60 s (default)
	Manual Countdown(sec)	Manual count down timer Range: 10...60 s. Default: 30 s
	Manual override Abort	True: Manual release takes effect even when abort is activated. False: Manual release doesn't take effect when abort is activated, but it takes effect immediately when the abort is deactivated.
	Abort Type	Press and Hold
	Hold At Time(sec)	Range: 1...60 s. Default: 10 s
	Reset Timer(sec)	Range: 10...60 s (default)
	CauseCalculation	OR (default) AND SUM
RCtl in UL mode	Name	Name of the releasing control
	Release Countdown(sec)	Releasing count down timer Range: 10...60 s (default)
	Manual Countdown(sec)	Manual count down timer Range: 10...60 s. Default: 30 s
	Manual override Abort	True: Manual release takes effect even when abort is activated. False: Manual release doesn't take effect when abort is activated, but it takes effect immediately when the abort is deactivated.
	Abort Type	Press and Hold ULI (default): IRI: NYC: AHJ:
	Hold At Time(sec)	Range: 1...60 s. Default: 10 s
	Reset Timer(sec)	Range: 10...60 s (default)

	CauseCalculation	OR (default) AND SUM
Dialer group	Name	Name of the dialer group
	Address	Range: 1...500. System assigns one address automatically once a group is added.
	Contact Id Alarm Code	"generic fire alarm", "smoke detector alarm", "water flow alarm", "heat detector alarm", "manual station alarm", "duct alarm", "co alarm"
	Group Id	Range: 1...999. System assigns an ID automatically once a group is added.

APPENDIX 2 TROUBLE-SHOOTING

1. FXS901-U2/U3 reports Version Mismatch

Status: FXS901-U2/U3 reports Version Mismatch when user performs download Firmware or Configuration or upload Configuration.

Possible Causes: The sales channel of FXS901-U2/U3 and FC2005/FC901 is incompatible. You can not use FXS901-U2 to communicate with FC901 and vice versa.

Handling: Find a compatible version FXS901-U2/U3 and try again.

2. FXS901-U2/U3 reports Communication Lost during downloading Firmware or Configuration or upload Configuration

Status: FXS901-U2/U3 reports Communication Lost while downloading Firmware or Configuration or upload Configuration.

Possible Causes: The physical connection between Panel and FXS901-U2/U3 is disturbed. Or the panel is disturbed.

Handling: If the downloading Configuration is disturbed, user should check the USB cable and panel status, and then download it again. If the downloading firmware is disturbed, user can contact local agent for a recovery.

3. FXS901-U2/U3 reports Panel No Response when start to download Configuration or upload Configuration

Status: FXS901-U2/U3 reports Panel no response when start to download Configuration or upload Configuration.

Possible Causes: The USB connection is detected but not works normally.

Handling: Re-plug the USB cable and try again.

4. USB port open error when start to download Configuration or upload Configuration

Status: FXS901-U2/U3 reports USB port open error when user performs download configuration or upload configuration.

Possible Causes: 1. The physical connection between Panel and FXS901-U2/U3 is disturbed. 2. The panel is not powered up.

Handling: 1. Check the USB cable and try it again. 2. If the panel is not powered up, power it up and try again after it works in normal status.

5. Communication Lost when start to download firmware

Status: FXS901-U2/U3 reports USB port open error when user performs download firmware.

Possible Causes: 1. The physical connection between Panel and FXS901-U2/U3 is disturbed. 2. The panel is not powered up.

Handling: 1. Check the USB cable and try it again. 2. If the panel is not powered up, power it up and try again after it works in normal status.

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