SIEMENS

Fire Alarm Control Panel

Model FC2005/FC901

Programming Manual

Building Technologies

Fire Safety & Security Products

TABLE OF CONTENTS

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, eg: the activation of detectors. The output (effect) of the logical control must be the physical devices, eg: 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:

- 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.
- 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.

- Serial Interface Circuit: The module can drive up to 8 remote LCD annunciators by Universal Fire Protocol.

Detection tree:

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

- Manual alarm zone
- Auto alarm zone
- Waterflow zone
- Supervisory zone
- Trouble zone
- Status zone
- AC Fail zone

There are two default zones:

- New Manual Alarm Zone1:
- New Auto 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 zone at will. If user deleted 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 criteria 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

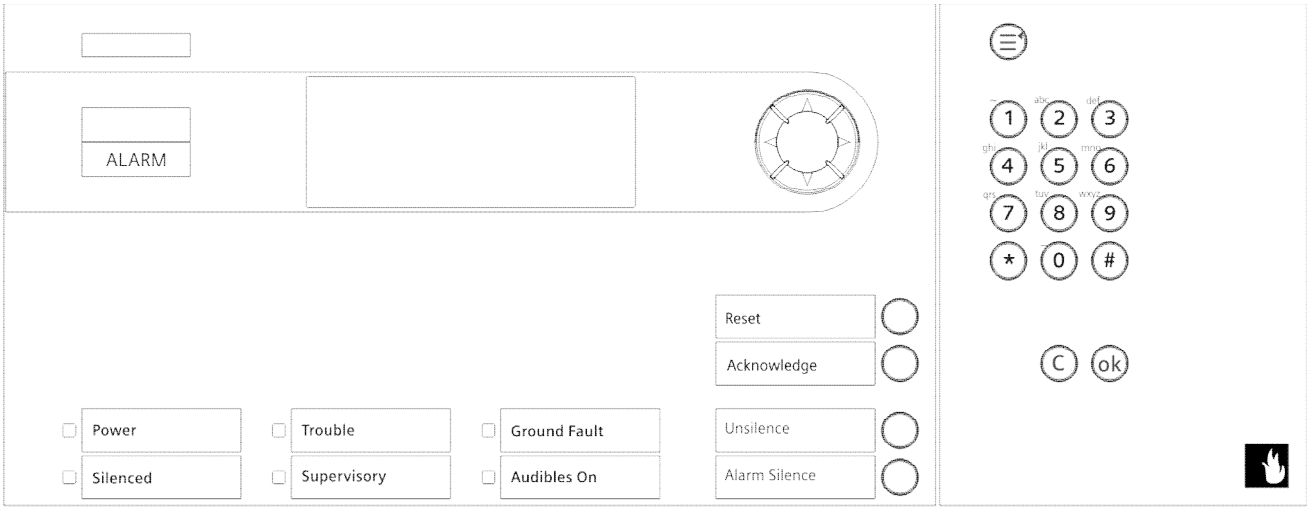

Fig. 1-1 Interface of FC2005/FC901

LCD:

a 160 by 64 dot LCD display is used to display event data, including alarms and troubles conditions, zone or device custom identification of messages, and a log of the system event history. A back light is included in the display to assure visibility in low light; To conserve power, the back light is only activated during a reported event or on operation of a display control button.

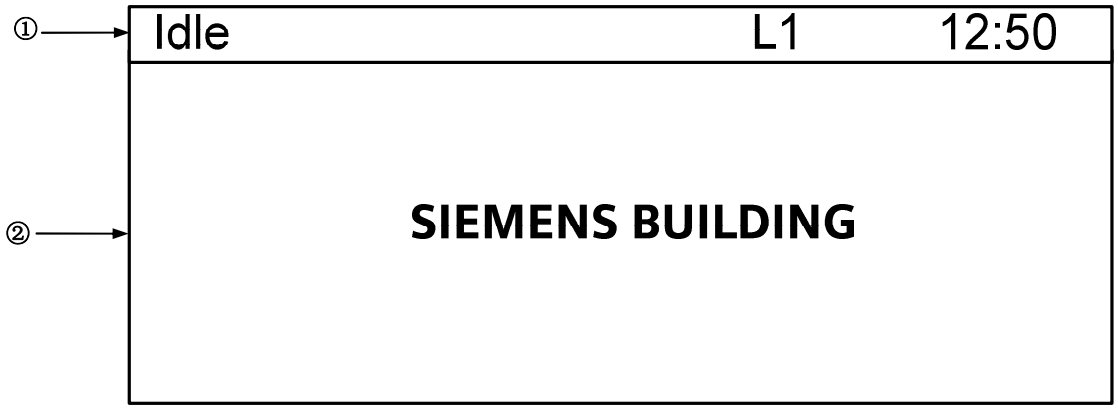

Fig. 1-2 LCD Display

LCD is divided into two parts:

① is used to display events type, events amount, user level, system time. Pressing “MENU”, ① will display operation menu according to user level.

② is used to display event name, event occurrence time, event in/out, event type. The LCD can display two events at a time. User can cycle through a circular list once the first event or last event message is reached.

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 happened sequence, and the latest in 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.

LED:

Power	Green	Steady ON	This indicates that the system's main power works normally.
		OFF	This indicates that the system is not powered on yet. This LED can be OFF only when the system is shut down.
		Flashing	This indicates that the main power is in trouble status and system is working on battery. When AC fail zone is activated, the LED will flash also.
Alarm	Red	Steady ON	This indicates that there are alarm events, and all alarm events have been acknowledged.
		OFF	This indicates that there is no alarm event in system.
		Flashing	This indicates that there are alarm events in system, but some of them have not been acknowledged.
Silenced	Yellow	Steady ON	The Silenced LED can only be steady on when the following conditions are all met: 1. There are activated silenceable devices, and all of them have been silenced. 2. There is no non-silenceable NAC activated.
		OFF	The Silenced LED will be OFF when above conditions can't be met.
Trouble	Yellow	Steady ON	This indicates that there are trouble events, and all of them have been acknowledged.
		OFF	This indicates that there is no trouble event in system.
		Flashing	This indicates that there are trouble events in system, but some of them have not been acknowledged.
Supervisory	Yellow	Steady ON	This indicates that there are supervisory events, and all of them have been acknowledged.
		OFF	This indicates that there is no supervisory event in system.
		Flashing	This indicates that there are supervisory events in system, but some of them have not been acknowledged.
Ground Fault	Yellow	Steady ON	This indicates that there are Ground Fault events in system.
		OFF	This indicates that there is no Ground Fault event in system.
		Flashing	This indicates that there are ground fault events in system, but some of them have not been acknowledged.
Audibles On	Red	Steady ON	The Audibles On LED 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 Audibles On LED will be OFF when above conditions are not met.

Button:

Alarm Silence	Press	Silences all silenceable devices in system. This will cause all activated silenceable devices to become silenced.
Acknowledge	Press	Acknowledges all unacknowledged events in system.
Reset	Press	Clears all obsolete events except those disabled ones, and deactivate all devices except those hold-through-reset devices in system.
Unsilence	Press	Unsilences all silenced devices in system. This will cause all silenced devices to become activated.
Menu	Press	Menu button for PMI operation.
OK	Press	OK button for PMI operation.
C	Press	Cancel button for PMI operation.
0-9	Press	Numeric buttons for letters, numerals and some punctuation marks entry
*	Press	* button for PMI operation.
#	Press	# button for PMI operation.
Four-way button	Press	A four-way button for menu navigation.

2. USER LEVEL

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

L 1 (User) – Locked Door

L 2 (Maintenance) – Locked Door and 4-digit Maintenance Password

L 3 (Technician) – Locked Door and 4-digit Technical Password

Table 2-1 user level list

Items	**L1 (User)**	**L 2 (Maintenance)**	**L 3 (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”			√
Configure			
“Save configure”			√
“Delete”			√
“Create”			√
“Assign”			√

2.1 Login

1. Press “Menu” to display the main menu (Fig. 2-1).

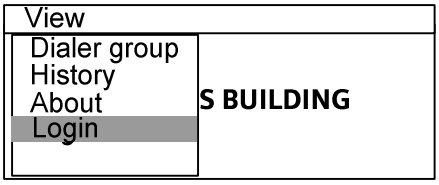

Fig. 2-1

2. Press “ ↓ ” to select “Login” and press “OK”, the password entry screen is displayed (Fig. 2-2).

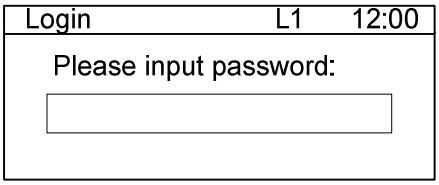

Fig. 2-2

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”.

Note:

- Default password for L 2 is 1234, for L 3 is 4321. Password can be changed.
- System log out automatically after 3 times of wrong entries.

2.2 Logout

There are two ways to logout:

- Logout automatically: System automatically logs out to L 1 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).

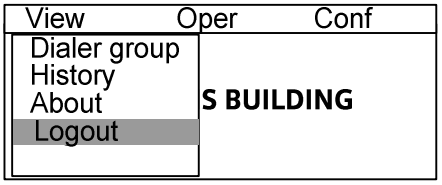

Fig. 2-3

2. Press ” ↓ ” to select “Logout” and press “OK”, the logout screen is displayed (Fig. 2-4).

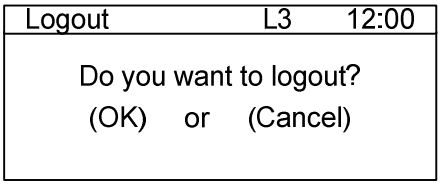

Fig. 2-4

3. Press “OK” to confirm to logout to Level 1; Press “C” to cancel the logout operation.

Note:

Users can directly login L 2/3 from L 1; 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”

4. 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).

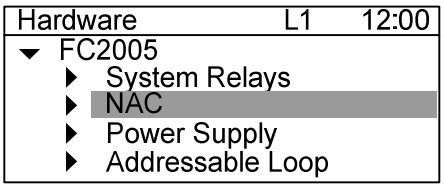

Fig.4-1

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

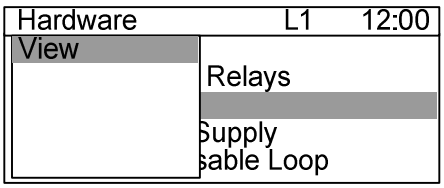

Fig.4-2

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

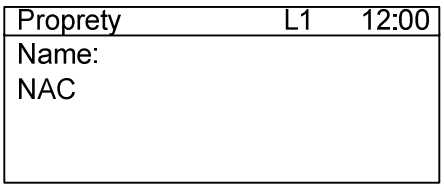

Fig. 4-3

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

5. 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).

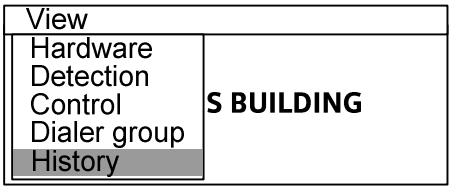

Fig.5-1

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

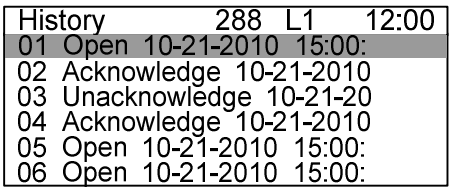

Fig.5-2

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

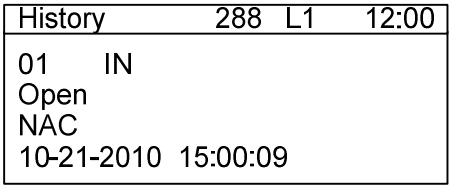

Fig.5-3

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 occure during the period are listed.

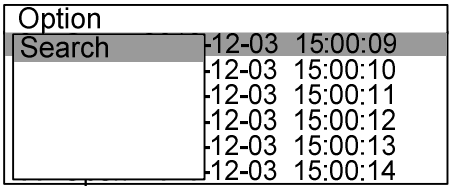

Fig.5-4

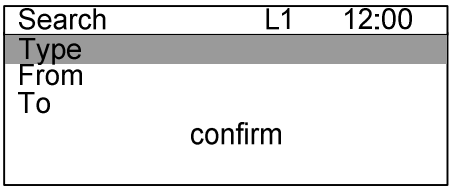

Fig.5-5

6. 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).

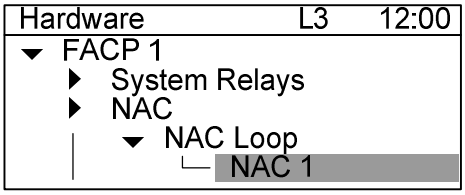

Fig.6-1

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

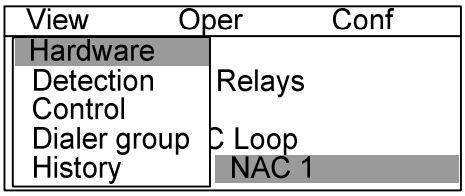

Fig.6-2

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).

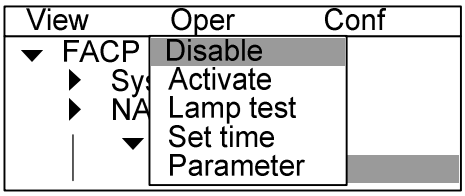

Fig.6-3

4. Press “OK” to disable the device.

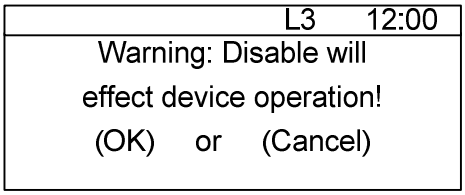

Fig.6-4

Steps to enable:

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

7. 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).

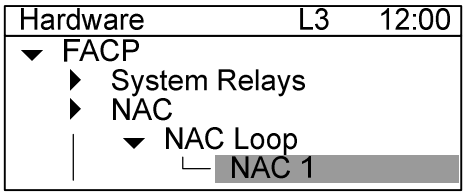

Fig.7-1

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

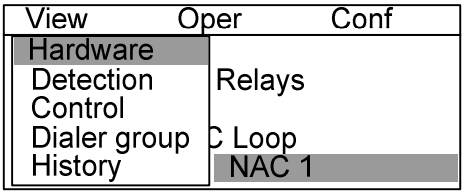

Fig.7-2

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

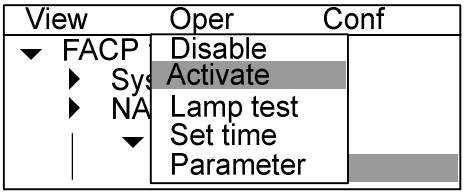

Fig.7-3

Steps to deactivate:

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

8. 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 is expired . 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).

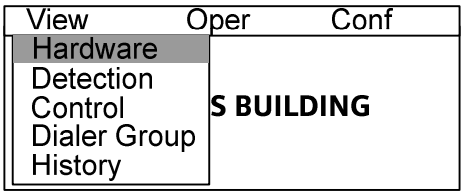

Fig. 8-1

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

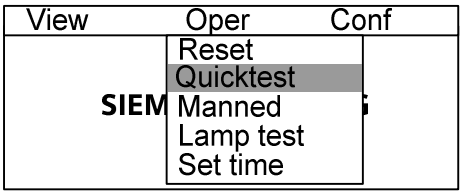

Fig.8-2

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

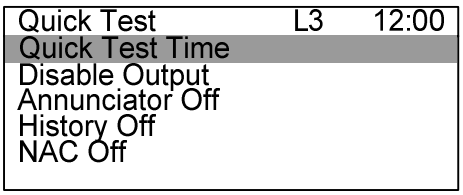

Fig.8-3

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 initiaing devices.

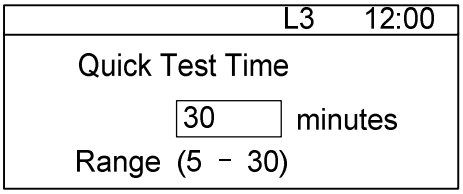

Fig.8-4

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.

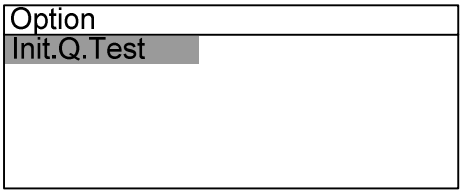

Fig.8-5

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.

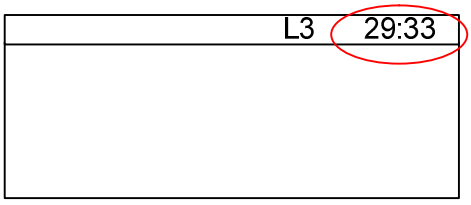

Fig.8-6

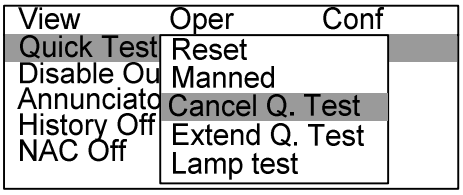

Fig.8-7

9. 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 to device test:

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

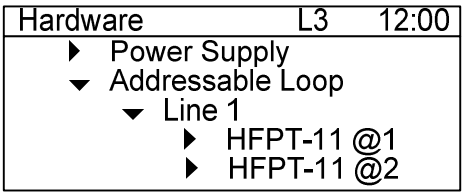

Fig.9-1

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

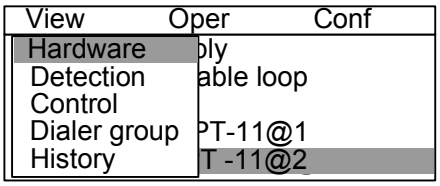

Fig.9-2

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”.

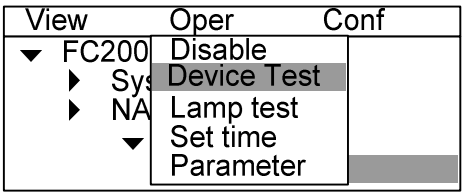

Fig.9-3

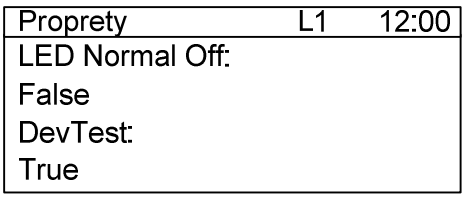

Fig.9-4

Steps to 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.

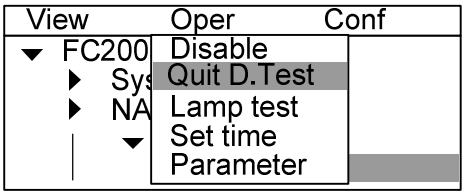

Fig.9-5

10. 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 to short recovery:

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

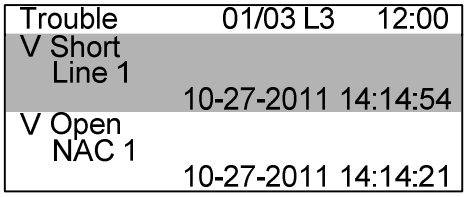

Fig.10-1

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

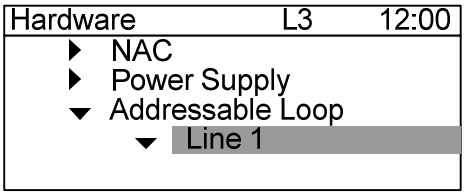

Fig.10-2

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

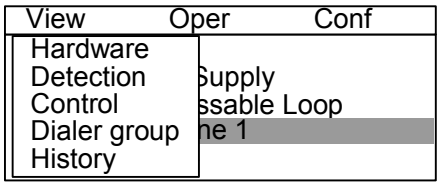

Fig.10-3

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).

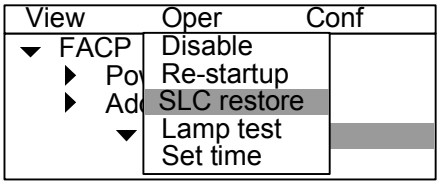

Fig.10-4

Steps to re-startup:

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

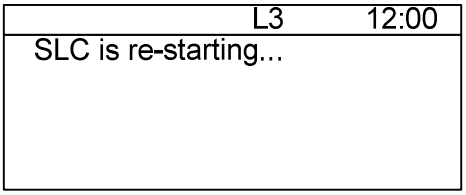

Fig.10-5

11. 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).

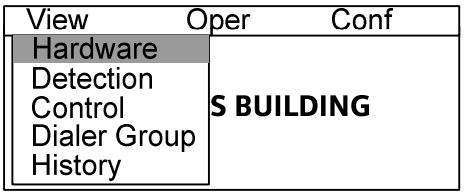

Fig.11-1

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).

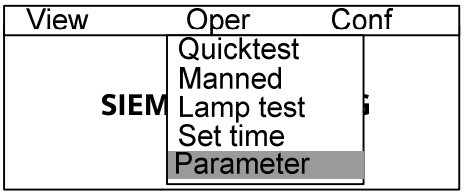

Fig.11-2

3. Press " ↓ " to select “Buzzer On” and press “OK”, the current setting is displayed. Press " ↓ " to select “OFF”/”ON” (Fig. 11-4) and press “OK” to change the setting and return to previous screen. Panel will save the configuration file automatically.

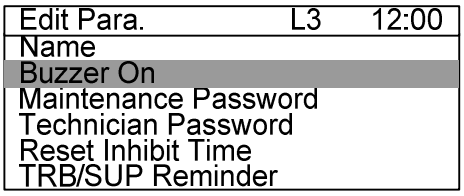

Fig.11-3

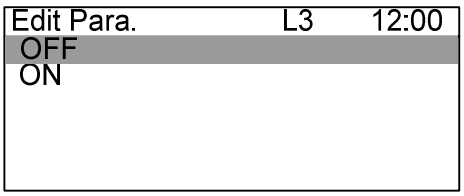

Fig.11-4

4. Do “Save Configure” refer to chapter 15.

12. HOW TO SET TIME

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

Steps:

1. Press “Menu” to display the main menu (Fig.12-1).

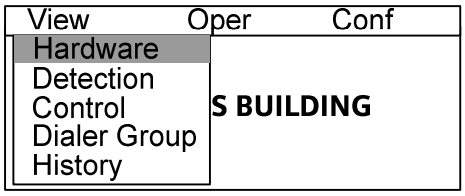

Fig.12-1

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).

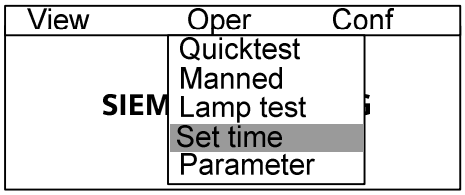

Fig.12-2

3. Select “TimeFormat” to set the preferred time format (Fig.12-4).

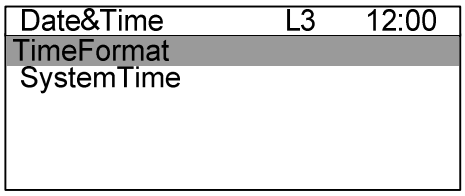

Fig.12-3

4. Select “System Time” to change the system time (Fig.12-5).

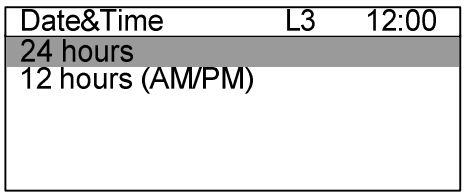

Fig.12-4

5. Enter new time and press "OK" to finish time setting and return to previous screen (Fig.12-6).

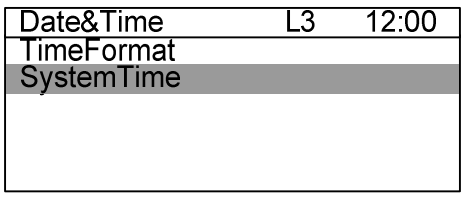

Fig.12-5

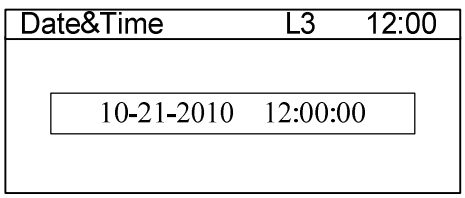

Fig.12-6

13. 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).

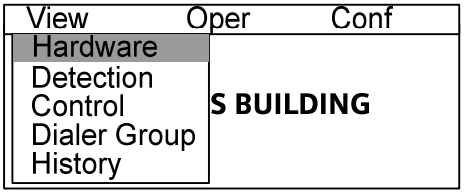

Fig.13-1

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

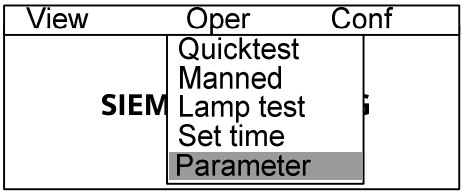

Fig.13-2

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

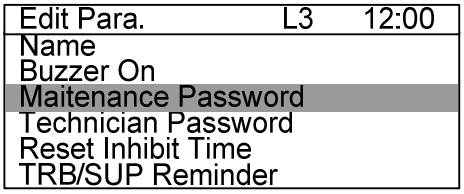

Fig.13-3

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

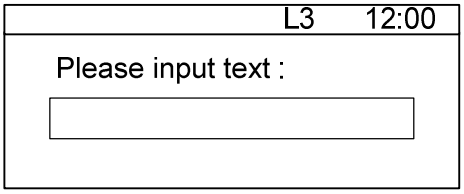

Fig.13-4

14. HOW TO DO LAMP TEST

Function: To check the LCD, LEDs and buzzer. When it is activated, it will turn on the LEDs, sounds the buzzer and LCD displays. User doesn't need to turn it off manually. Lamp test will automatically quit when it completes.

Steps:

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

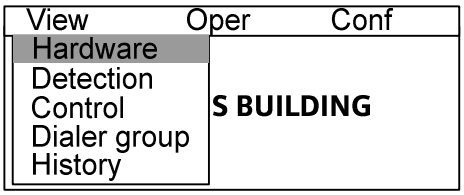

Fig.14-1

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

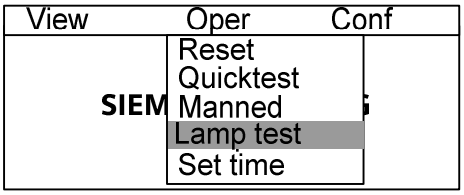

Fig.14-2

15. 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).

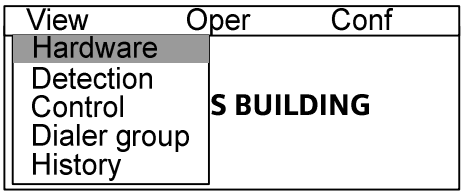

Fig.15-1

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

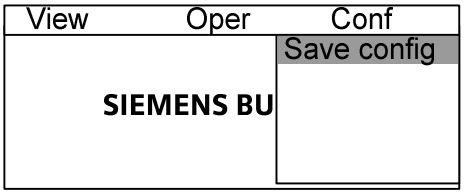

Fig.15-2

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

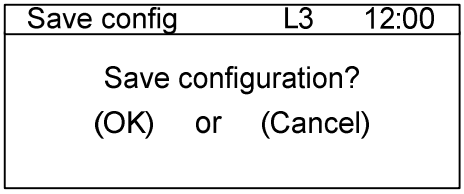

Fig. 15-3

16. 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).

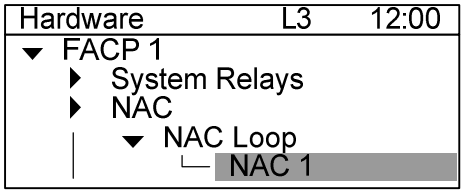

Fig.16-1

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

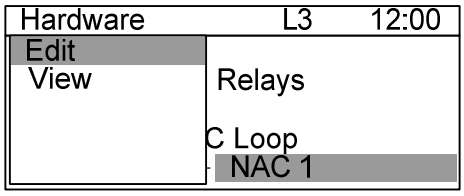

Fig.16-2

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

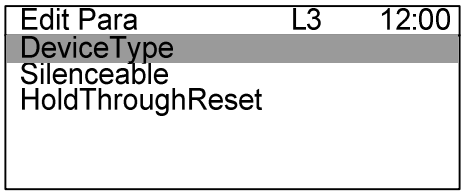

Fig.16-3

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.

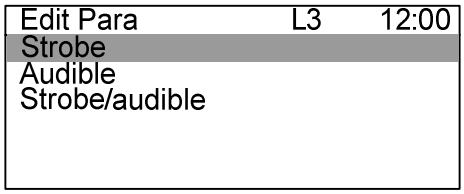

Fig.16-4

17. 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).

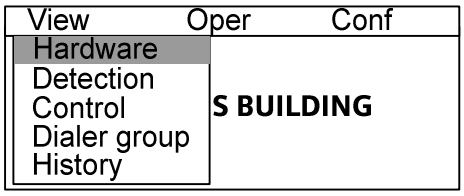

Fig.17-1

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

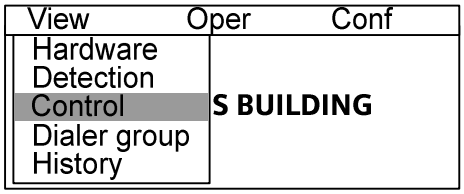

Fig.17-2

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.

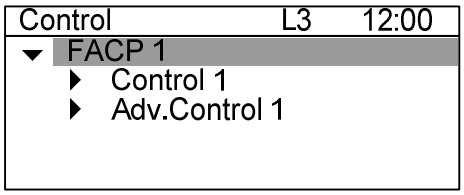

Fig.17-3

4. To select “Type” and press “OK”, two types (Basic Control and Advanced Control) 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).

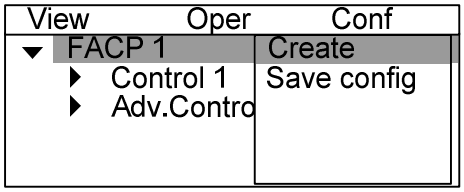

Fig.17-4

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).

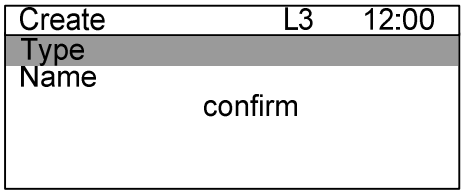

Fig.17-5

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

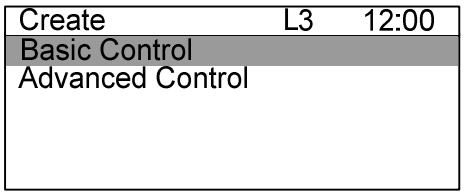

Fig.17-6

Steps of deleting:

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

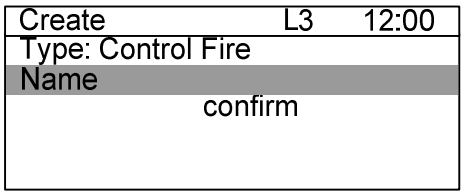

Fig.17-7

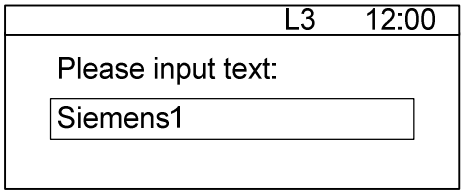

Fig.17-8

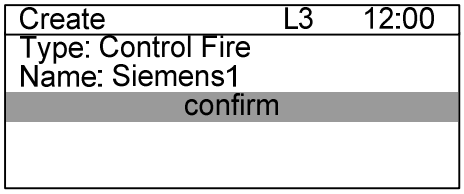

Fig.17-9

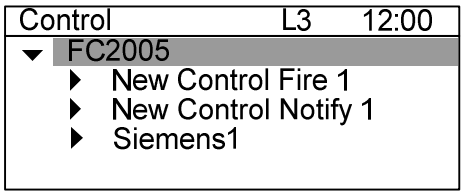

Fig.17-10

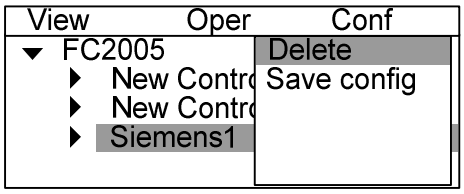

Fig.17-11

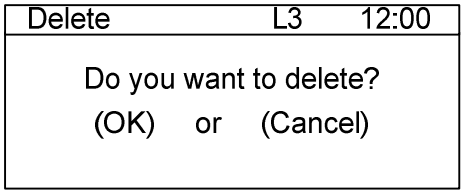

Fig.17-12

18. HOW TO EDIT LOGIC CONTROL

Function: To edit logic control.

Steps:

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

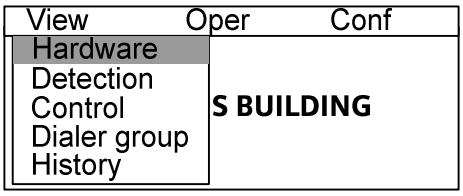

Fig.18-1

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

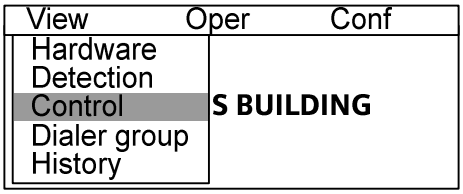

Fig.18-2

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

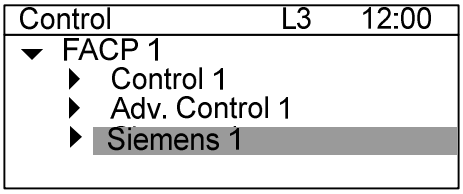

Fig.18-3

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.

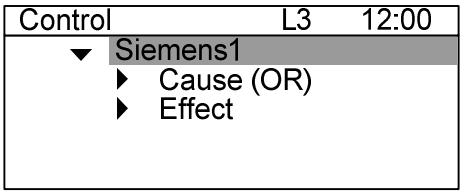

Fig.18-4

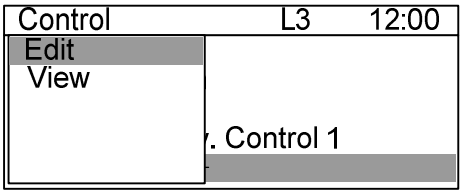

Fig.18-5

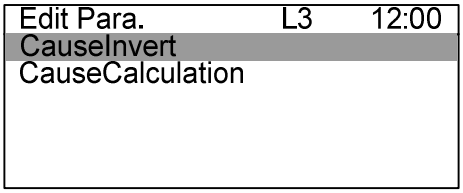

Fig.18-6

Fig.18-7

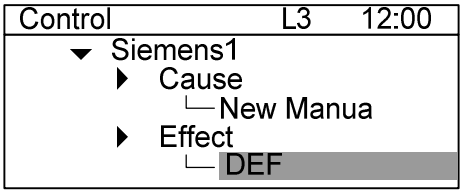

Fig.18-8

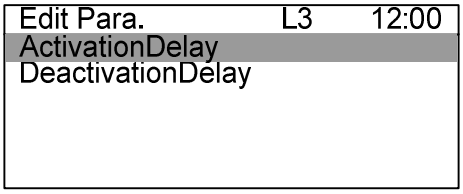

Fig.18-9

19. HOW TO CREATE/DELETE DIALER GROUP

Function: The intend of DialerGroup is to reduce messages reported to supervising station. e.g. If two zones both detected alarm condition but they are close to each other, sending one piece of alarm message to inform the supervising station will be enough. On the other hand, the more it reports, the more it costs. The system need the ability to group zones into dialer groups and reporting is only done by groups, never by the individual zones. There is one build-in dialer groups that will be created automatically. Newly created zones will be automatically added to the default dialergroup. Physical devices can not be contained in DialerGroup and they will be reported as system level messages.

Steps of creating:

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

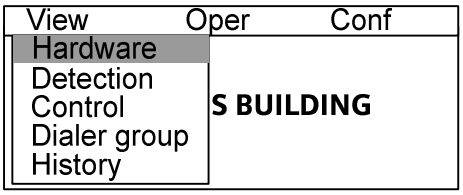

Fig.19-1

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

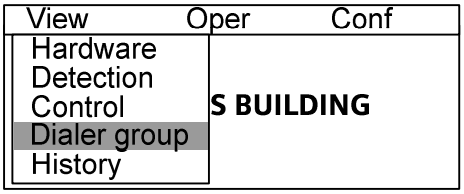

Fig.19-2

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.

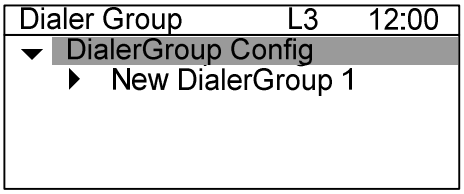

Fig.19-3

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).

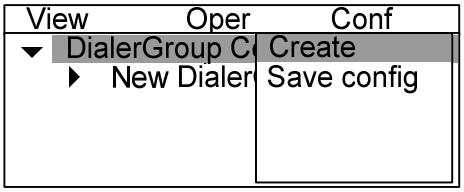

Fig.19-4

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).

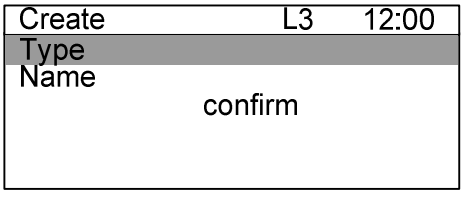

Fig.19-5

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

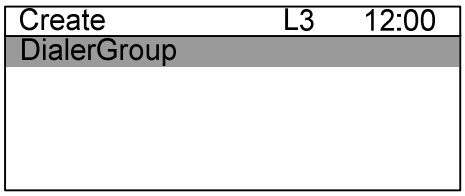

Fig.19-6

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.

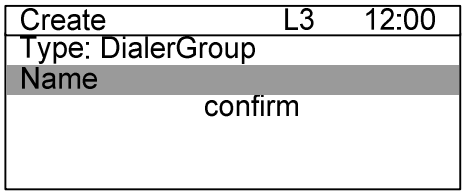

Fig.19-7

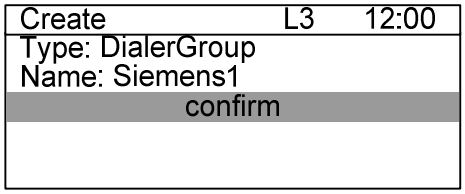

Fig.19-8

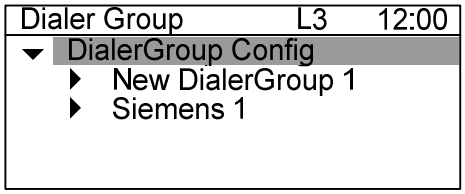

Fig.19-9

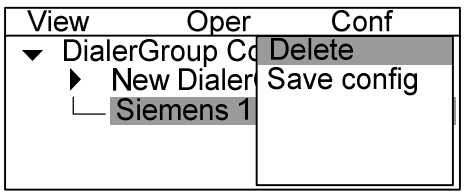

Fig.19-10

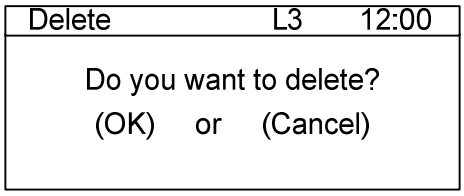

Fig.19-11

20. 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).

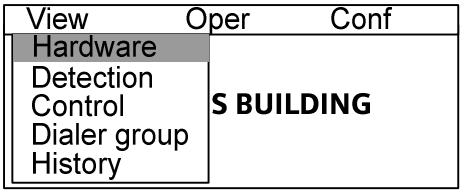

Fig.20-1

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

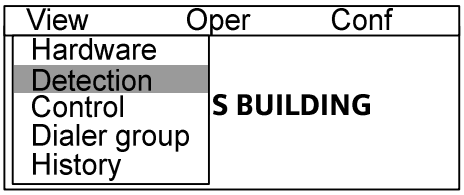

Fig.20-2

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.

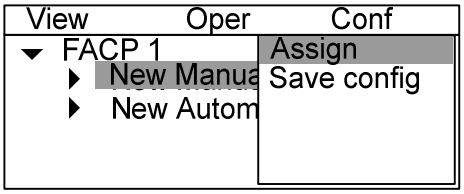

Fig. 20-3

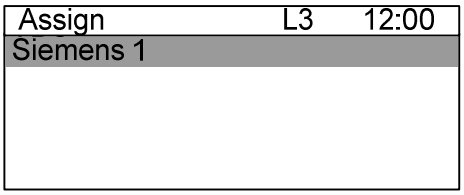

Fig. 20-4

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

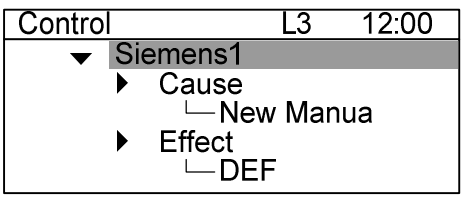

Fig. 20-5

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.

21. 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).

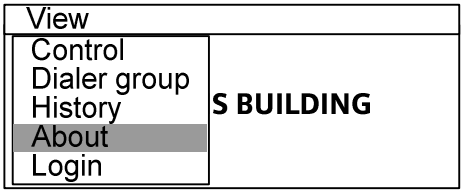

Fig.21-1

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

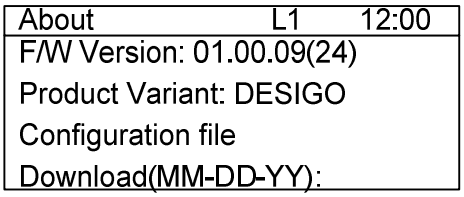

Fig. 21-2

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

22. 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 form 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-annunciated 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).

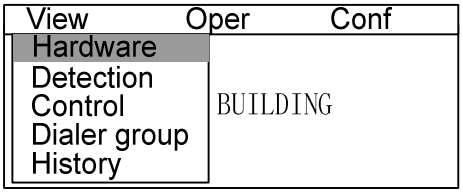

Fig.22-1

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).

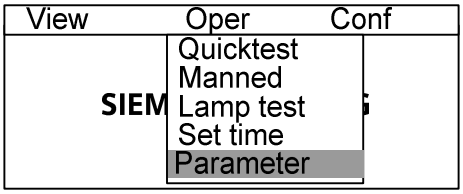

Fig.22-2

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).

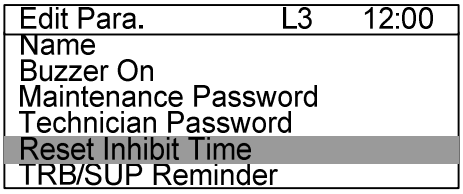

Fig.22-3

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

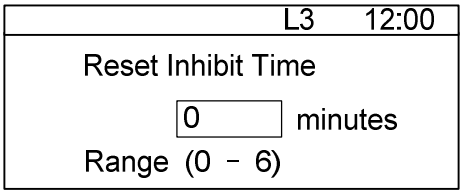

Fig.22-4

23. 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 panel which will be displayed
	Buzzer	Option 1: On (default) Option 2: Off
	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
	Timeformat	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.
	Quick Test Time(min)	Min:5; Max:30 Default value is 30.
	Disable Output	Bool: True (default)/ False
	Annunciator Off	Bool: True / False(default)
	History Off	Bool: True / False(default)
	NAC Off	Bool: True / False(default)

Relays on board	Silenceable	Bool: True (default)/ False
	HoldThroughReset	Bool: True/ False (default)
NAC loop	Wire Style	Option 1: Class A Option 2: Class B(default)
NAC Channel	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
	Keep Flashing	Bool: True/ False (default) (only when the device type is strobe/audible.)
	HoldThroughReset	Bool: True/ False (default)
Power Supply	Shut On ACFail	Bool: True (default)/ False
	Resettable	Bool: True (default)/ False
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)
8700	Name	
	Address	
8701	Name	
	Address	
	Normally Open (input channel)	Bool: True (default)/ False
8702/8703	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Normally Open (input channel)	Bool: True (default)/ False
8704	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Normally Open (input channel)	Bool: True (default)/ False
	Silenceable (output channel)	Bool: True (default)/ False

	HoldThroughReset (output channel)	Bool: True/ False (default)
8705	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Alarm Verification (channel)	Bool: True/ False (default)
8706	Name	
	Address	
	Silenceable (channel)	Bool: True (default)/ False
	HoldThroughReset (channel)	Bool: True/ False (default)
8710	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Sensitivity (channel)	Option 1: 2.45%(default) Option 2: 2.59% Option 3: 2.72% Option 4: 2.86% Option 5: 3.00% Option 6: 3.13% Option 7: 3.27%
	Alarm Verification (channel)	Bool: True/ False (default)
8712	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Enable RateOFRise (channel)	Bool: True/ False (default)
8713	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	ASD Setting (channel)	Option 1: Off (default) Option 2: Office/Retail Option 3: Warehouse Option 4: Lobby Option 5: Computer Room Option 6: Dormitory Option 7: Health Care Option 8: Parking Garage Option 9: Equip Storage/Transformer Room Option 10: Precious Storage Option 11: Hostile Enviroment Option 12: Duct Option 13: Verified Duct

8726	Name	
	Address	
	Silenceable (channel)	Bool: True (default)/ False
	HoldThroughReset (channel)	Bool: True/ False (default)
OOH941	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Multi Critieria Usage (channel)	Option 1: ASD (default) Option 2: Photoelectric(alarm) Option 3: Off
	Photoelectric Setting (channel)	Option 1: 2.50%/ft Threshold Option 2: 3.00%/ft Threshold Option 3: 3.50%/ft Threshold Option 4: 2.50%/ft Threshold Verified Option 5: 3.00%/ft Threshold Verified Option 6: 3.50%/ft Threshold Verified
	Thermal Alarm Usage (channel)	Option 1: Thermal Evaluation(default) Option 2: Off
	Thermal Alarm Setting (channel)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 145° F Option 3: Fixed temperature 155° F Option 4: Fixed temperature 165° F Option 5: Fixed temperature 175° F(default) Option 6: Fixed temperature 135° F + ROR 15° F Option 7: Fixed temperature 175° F + ROR 15° F Option 8: Fixed temperature 135° F + ROR 20° F Option 9: Fixed temperature 175° F + ROR 20° F
OOHC941	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Multi Critieria Usage (channel)	Option 1: ASD (default) Option 2: Photoelectric(alarm) Option 3: Off

	ASD Setting	Option 1: Telecommunication Option 2: Incipient Option 3: Ion equivalent Option 4: Data Center Option 5: Computer Room Option 6: Precious Storage Option 7: Power Generation Option 8: Hospital Option 9: Health Care Option 10: Dormitory Option 11: Utility Room Option 12: Lobby Option 13: Office Option 14: Hotel Option 15: School Option 16: Warehouse Option 17: Manufacturing Option 18: Parking Garage Option 19: Open Environment Option 20: EMI noise Option 21: Hostile Option 22: Data Center w CO Option 23: Hotel w CO Option 24: Hostile w CO Option 25: Duct w CO
	Thermal Alarm Usage (channel)	Option 1: Thermal Evaluation(default) Option 2: Off
	Thermal Alarm Setting (channel)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 145° F Option 3: Fixed temperature 155° F Option 4: Fixed temperature 165° F Option 5: Fixed temperature 175° F(default) Option 6: Fixed temperature 135° F + ROR 15° F Option 7: Fixed temperature 175° F + ROR 15° F Option 8: Fixed temperature 135° F + ROR 20° F Option 9: Fixed temperature 175° F + ROR 20° F
FDOOT441	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Multi Critieria Usage (channel)	Option 1: ASD (default) Option 2: Photoelectric(alarm) Option 3: Off

	ASD Setting	Option 1: Telecommunication Option 2: Incipient Option 3: Ion equivalent Option 4: Data Center Option 5: Computer Room Option 6: Precious Storage Option 7: Power Generation Option 8: Hospital Option 9: Health Care Option 10: Dormitory Option 11: Utility Room Option 12: Lobby Option 13: Office Option 14: Hotel Option 15: School Option 16: Warehouse Option 17: Manufacturing Option 18: Parking Garage Option 19: Open Environment Option 20: EMI noise Option 21: Hostile Option 22: Duct
	Thermal Alarm Usage (channel)	Option 1: Thermal Evaluation(default) Option 2: Off
	Thermal Alarm Setting (channel)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 145° F Option 3: Fixed temperature 155° F Option 4: Fixed temperature 165° F Option 5: Fixed temperature 175° F(default) Option 6: Fixed temperature 135° F + ROR 15° F Option 7: Fixed temperature 175° F + ROR 15° F Option 8: Fixed temperature 135° F + ROR 20° F Option 9: Fixed temperature 175° F + ROR 20° F
FDOOTC441	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Multi Critieria Usage (channel)	Option 1: ASD (default) Option 2: Photoelectric(alarm) Option 3: Off

	ASD Setting	Option 1: Telecommunication Option 2: Incipient Option 3: Ion equivalent Option 4: Data Center Option 5: Computer Room Option 6: Precious Storage Option 7: Power Generation Option 8: Hospital Option 9: Health Care Option 10: Dormitory Option 11: Utility Room Option 12: Lobby Option 13: Office Option 14: Hotel Option 15: School Option 16: Warehouse Option 17: Manufacturing Option 18: Parking Garage Option 19: Open Environment Option 20: EMI noise Option 21: Hostile Option 22: Data Center w CO Option 23: Hotel w CO Option 24: Hostile w CO Option 25: Duct w CO
	Thermal Alarm Usage (channel)	Option 1: Thermal Evaluation(default) Option 2: Off
	Thermal Alarm Setting (channel)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 145° F Option 3: Fixed temperature 155° F Option 4: Fixed temperature 165° F Option 5: Fixed temperature 175° F(default) Option 6: Fixed temperature 135° F + ROR 15° F Option 7: Fixed temperature 175° F + ROR 15° F Option 8: Fixed temperature 135° F + ROR 20° F Option 9: Fixed temperature 175° F + ROR 20° F
FDCIO422	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Wire Style	Option 1: Class A Option 2: Class B(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)	Option 1: 0.25s(default) Option 2: 0.5s Option 3: 1s Option 2: 2.5s Option 4: 5s Option 5: 10s Option 6: 20s Option 7: 45s Option 8: 60s Option 9: 90s Option 10: 120s Option 11: 150s Option 12: 180s Option 13: 210s Option 14: 240s
HI921	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Temperature Setting (channel)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 145° F Option 3: Fixed temperature 155° F Option 4: Fixed temperature 165° F Option 5: Fixed temperature 175° F(default) Option 6: Fixed temperature 135° F + ROR 15° F Option 7: Fixed temperature 175° F + ROR 15° F
OP921	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Sensitivity (channel)	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 (channel)	Bool: True/ False (default)
OH921	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Multi Critieria Usage (channel)	Option 1: Multi-critieria(default) Option 2: Off
	Multi Critieria Setting (channel)	Option 1: Sensitive 1.40%/ft Option 2: Standard 1.80%/ft Option 3: Robust 2.30%/ft(default)
	Alarm Verification (channel)	Bool: True/ False (default)
	Thermal Alarm Usage (channel)	Option 1: Thermal Evaluation(default) Option 2: Off

	Thermal Alarm Setting (channel)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 135° F + ROR 15° F
FDO421	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Sensitivity (channel)	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 (channel)	Bool: True/ False (default)
FDT421	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Temperature Setting (channel)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 145° F Option 3: Fixed temperature 155° F Option 4: Fixed temperature 165° F Option 5: Fixed temperature 175° F(default) Option 6: Fixed temperature 135° F + ROR 15° F Option 7: Fixed temperature 175° F + ROR 15° F
FDOT421	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Multi Critieria Usage (channel)	Option 1: Multi-critieria(default) Option 2: Off
	Multi Critieria Setting (channel)	Option 1: Sensitive 1.40%/ft Option 2: Standard 1.80%/ft Option 3: Robust 2.30%/ft(default)
	Alarm Verification (channel)	Bool: True/ False (default)
	Thermal Alarm Usage (channel)	Option 1: Thermal Evaluation(default) Option 2: Off
	Thermal Alarm Setting (channel)	Option 1: Fixed temperature 135° F Option 2: Fixed temperature 135° F + ROR 15° F
HCP	Name	
	Address	
	Silenceable (channel)	Bool: True (default)/ False
	HoldThroughReset (channel)	Bool: True/ False (default)
HFP	Name	
	Address	
	LED normal off	Bool: True/ False (default)

	ASD Setting (channel)	Option 1: Off (default) Option 2: Office/Retail Option 3: Warehouse Option 4: Lobby Option 5: Computer Room Option 6: Dormitory Option 7: Health Care Option 8: Parking Garage Option 9: Equip Storage/Transformer Room Option 10: Precious Storage Option 11: Hostile Enviroment Option 12: Duct Option 13: Verified Duct
	Sensitivity (channel)	Option 1: 2.45%(default) Option 2: 2.59% Option 3: 2.72% Option 4: 2.86% Option 5: 3.00% Option 6: 3.13% Option 7: 3.27%
	Alarm Verification (channel)	Bool: True/ False (default)
HFPO	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Sensitivity (channel)	Option 1: 2.45%(default) Option 2: 2.59% Option 3: 2.72% Option 4: 2.86% Option 5: 3.00% Option 6: 3.13% Option 7: 3.27%
	Alarm Verification (channel)	Bool: True/ False (default)
HFPT	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Enable RateOfRise (channel)	Bool: True/ False (default)
HMS	Name	
	Address	
HMS-2S	Name	
	Address	
HTRI-D/ HTRI-M/ HTRI-S	Name	
	Address	
	LED normal off	Bool: True/ False (default)

	Normally Open (channel)	Bool: True (default)/ False
HTRI-R	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Normally Open (input channel)	Bool: True (default)/ False
	Silenceable (output channel)	Bool: True (default)/ False
	HoldThroughReset (output channel)	Bool: True/ False (default)
HZM	Name	
	Address	
	LED normal off	Bool: True/ False (default)
	Alarm Verification (channel)	Bool: True/ False (default)
ILED	Name	
	Address	
	Silenceable (channel)	Bool: True (default)/ False
	HoldThroughReset (channel)	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	Wire Style	Option 1: Class A (default) Option 2: Class B
UFP annunciator	Name	
	Address	
	Report Alarm	Bool: True (default)/ False
	Report Supervisory	Bool: True (default)/ False
	Report Trouble	Bool: True (default)/ False
	Report Status	Bool: True (default)/ False
CTLL	Work Mode	Option 1: CityTie (default) Option 2: LeaseLine
Zone automatic	Name	
	Alarm Delay	Option 1: No (default) Option 2: Pre-Signal Option 3: PAS
	Delay Time	Min:60; Max:180 Default value is 60. only when “alarmdelay” is not “No”.
Zone manual	Name	
	Alarm Delay	Option 1: No (default) Option 2: Pre-Signal Option 3: PAS
	Delay Time	Min:60; Max:180 Default value is 60. only when “alarmdelay” is not “No”.
Zone supervisory	Name	
Zone technical	Name	
Zone water flow	Name	
Zone AC fail	Name	
Zone trouble	Name	
Control 1	Name	
Cause(OR)	Causecalculation	Option 1: OR(Default) Option 2: AND Option 3: SUM
Effect (Under basic 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)

Adv. Control 1	Name	
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
Dialer group	Name	
	Address	min:1;max:500
	Contact Id Alarm Code	"generic fire alarm", "smoke detector alarm", "water flow alarm", "heat detector alarm", "manual station alarm", "duct alarm"
	Group Id	min:1;max:999;

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, 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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