Honeywell
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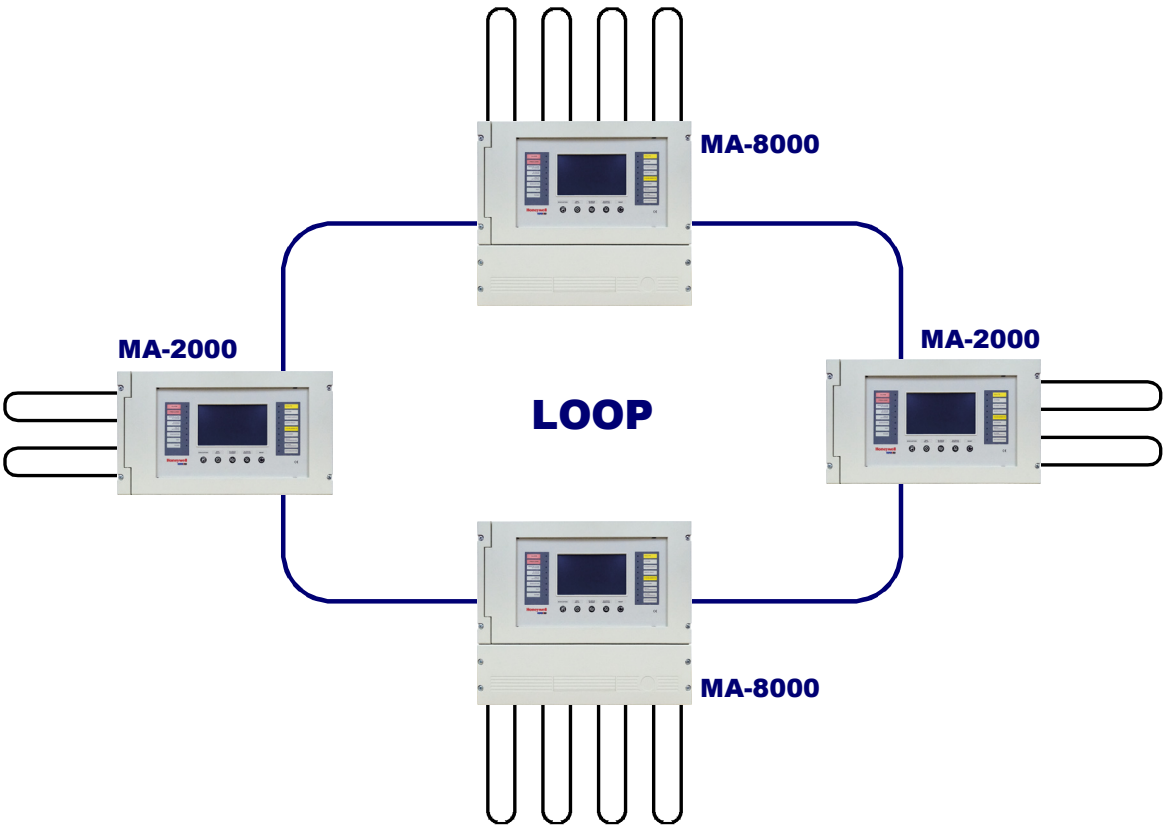
FIRE SYSTEMS
Fire Safety



MAx panel Fire Detection System

Operation Manual

M-167.3-Serie-MA-EN / 11.2021

Intended purpose

This product may be used only for the applications outlined in the catalogue and in the technical description, and only in conjunction with the recommended and approved external devices and components.
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The information contained in this documentation is provided without warranty.

Safety-related user information

This manual includes information required for the proper use of the products described.

In order to ensure correct and safe operation of the product, all guidelines concerning its transport, storage, installation, and mounting must be observed. This includes taking the necessary care when operating the product.

The term 'qualified personnel' in the context of the safety information included in this manual or on the product itself designates:

- project engineers who are familiar with the safety guidelines concerning fire alarm and extinguishing systems.
- trained service engineers who are familiar with the components of fire alarm and extinguishing systems and the information on their operation as included in this manual.
- trained installation or service personnel with the necessary qualifications for carrying out repairs on fire alarm and extinguishing systems, or who are authorised to operate, earth and label electrical circuits and/or safety equipment/systems.

Symbols

The following information is provided in the interests of personal safety and to prevent damage to the product described in this manual and all equipment connected to it.
Safety information and warnings to prevent hazards endangering the life and health of users and maintenance personnel, as well as causing damage to the equipment itself, are indicated by the following pictograms. Within the context of this manual, these pictograms have the following meanings:

Warning - designates risks for man and/or machine. Non-compliance will result in risks to man and/or machine. The level of risk is indicated by the word of warning.

Note - important information on a topic or a procedure and other important information.

Standards and guidelines - observe configuration and commissioning information in accordance with the national and local requirements.

Dismantling

In accordance with Directive 2012/19/EU (WEEE), after being dismantled, electrical and electronic equipment is taken back by the manufacturer for proper disposal.

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1 General / Application

These operation instructions are intended to complement the explanations of your fire alarm installer and provide you with concise and comprehensive information on the operation of the fire alarm control panel MAx series MA-1000, MA-2000 and MA-8000. We recommend that you read these operating instructions carefully and keep them with the technical documents of the fire alarm control panel (FACP). If you have any questions, please contact your fire alarm installer.

This documentation describes all displays, indicators and operating elements that are relevant for the operation of your fire alarm control panel.

The compact, microprocessor-controlled FACP is used for early fire detection, chiefly in small- to medium-sized buildings, with fire detectors based on addressable detector. The FACP technology represents the state of the art in early fire detection.

The use of intelligent fire detectors on a short-circuit and fault-tolerant loop guarantees reliable early detection of fires.

Thanks to the clear design of the product, the instructed person will be able to quickly and easily operate the functions of the panel. The operating state of each detector zone, such as fire, fault or shut-off is indicated by a separate single detector zone indicator unit on the operating panel.

This manual refers to functions available in the software revision shown on the cover.

1.1 Associated Documents

Part No.	Description
M-167.1-MA1000-EN	Installation Manual MA-1000
M-167.1-MA2000-EN	Installation Manual MA-2000
M-167.1-MA8000-EN	Installation Manual MA-8000
M-167.2-SERIE-MA-EN	Commissioning Manual MAx panel Fire Detection System
M-167.3-SERIE-MA-EN	Operation Manual MA-1000, MA-2000, MA-8000
M-167.4-SERIE-MA-EN	Quick Start Guide MA-1000, MA-2000, MA-8000
M-167.5-SERIE-MA-EN	Configuration tool MA-1000, MA-2000, MA-8000
M-167.6-MA-LCD7-EN	Operating and Installation Manual MA-LCD Repeater

1.2 DEFINITIONS

LINE: A physical line to which the intelligent field devices are connected:

- Detectors
- Audio / visual devices
- Manual call points (MCP)
- Input and output modules

POINTS: Are the intelligent field devices that can be connected to the FACP. A maximum of 50 points can be associated to each zone.

ZONES: Are groupings of points. They serve as a basic indication to identify the physical position of an event.

MAx panel	Max. number of zones
MA-1000	150
MA-2000	2000
MA-8000	2000

GROUPS: Are a software set that allows the necessary associations for the execution of an activation. The maximum number of groups are:

- 400 in a standalone FACP
- 1600 in a network system

1.3 FRONT PANEL CONTROLS AND SIGNALLINGS

Buttons with dedicated functions

EVACUATION: Command for activating the siren output and all output modules programmed with type SW = SND in the absence of alarms and faults. A **level 2 password** is required to activate this function.

END DELAY:
This button is active only in the event of an alarm if the immediate activation of the sounder outputs has been excluded in the exclusion menu. The panel delays the activation of the abovementioned outputs for the programmed times. During the delay time, the active delay LED flashes and it is possible to reset the current delay via the End Delay button.

SILENCE BUZZER:
By pressing this button, the operator can silence the panel buzzer. This allows the user to perform a RESET.
SOUNDER ON/OFF SILENCE: A level 2 password is required for this function.
The following devices are activated in the event of an alarm:

- Sounder output
- Output modules programmed with SW type ID=**SND**
- The output modules activated for CBE associations

SILENCE RESOUND:
By pressing this button, you can deactivate the following devices:

- Siren output
- Output modules programmed with type ID **SND and** enabled for silencing
- All output modules activated for CBE associations and enabled for silencing

Pressing this button again will reactivate:

- Siren output
- Output modules programmed with type ID **SND**
- All the output modules deactivated in the previous silencing

RESET:
This function **requires a level 2 password.** Pressing this button clears alarms and faults from the memory. It deactivates the sounder and turns off all light signals of sensors in the alarm.

FUNCTION BUTTONS in LCD TOUCH SCREEN:

These virtual buttons are displayed at the bottom of the LCD screen.
They activate the corresponding functions.
These functions change according to the selected menus.

Example: in the **system status display**, these buttons allow access to the Programming, Utilities, Disablements or Test menus.

- Programming (PGRM)
- Utilities (UTIL)
- Disablement (DISABL)
- Test (TEST)

Buttons to use during PROGRAMMING or to insert the PASSWORDS

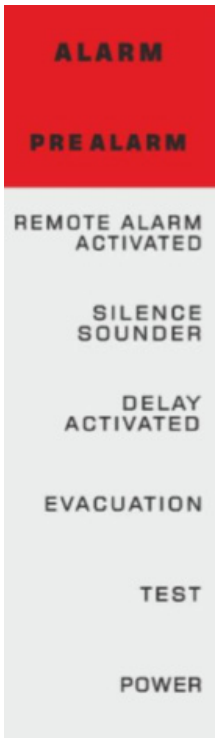
ARROWS: they are used to make some selections.

Pressing and holding one of these buttons for more than 1 second, you obtain the automatic repetition.

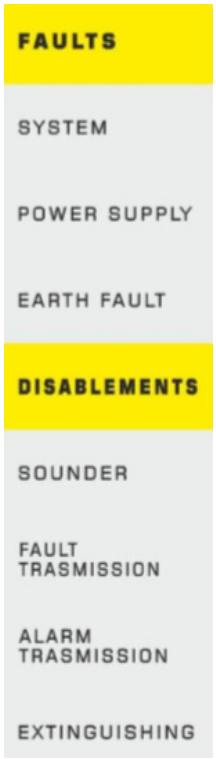
ENTER: After performing a selection, it confirms the entered data.

ESCAPE: "Back", this is the menu exit function.

1.4 FRONT PANEL LED INDICATIONS



ALARM (red):
It flashes if there is at least one device in alarm status and it has not been recognised yet. It is permanently on if all alarm events have been recognised.
PREALARM (red):
It flashes if there is at least one device in pre-alarm status and it has not been recognised yet. It is permanently on if all pre-alarm events have been recognised.
REMOTE ALARM ACTIVATED (red):
It is permanently on if the output to the fire alarm transmission devices (telephone dial) has been activated.
SILENCE SOUNDER (yellow):
It is on after the sounder silencing command has been performed.
DELAY ACTIVATED (yellow):
It is on if the immediate output activation has been disabled; this applies to type C (sounder output) and type E (alarm transmission via telephone dial) outputs. When this delay is activated, in the event of an alarm the system delays the abovementioned outputs for the programmed times. During the delay time the LED flashes and it is possible to reset the current delay via the “reset delay” button with user level 1 authorisation.
EVACUATION (yellow):
It is on after the evacuation function has been activated.
TEST (yellow):
It is on during the zone walk test.
POWER (green):
It is permanently on if the control unit is powered (230 V AC or battery charger).



FAULTS (yellow):
It flashes if there is at least one fault of any type and it has not been recognised yet. It is on if all faults have been recognised.
SYSTEM (yellow):
It is on if there is at least one system fault (watch dog, CRC memory error, etc.).

POWER SUPPLY (yellow):
It is on if there is a power supply fault.

EARTH FAULT (yellow):
It is permanently on if the loop/main positive or negative are earthed.
DISABLEMENTS (yellow):
It is on if there is at least one zone or point disabled in the system.

SOUNDER (yellow):
It is on if the siren output is disabled. It flashes if the siren output is in fault condition.

FAULT TRANSMISSION (yellow):
It is on if the fault transmission output is disabled (telephone dial). It flashes if the fault transmission output is in fault condition.

ALARM TRANSMISSION (yellow):
It is on if the alarm transmission is disabled (telephone dial). It flashes if the alarm transmission output is in fault condition.

EXTINGUISHING (yellow):
It is on if the output towards the automatic fire-fighting system (UDS) is disabled. It flashes if the fire-fighting control output is in fault condition.

1.5 USER INTERFACE DESCRIPTION

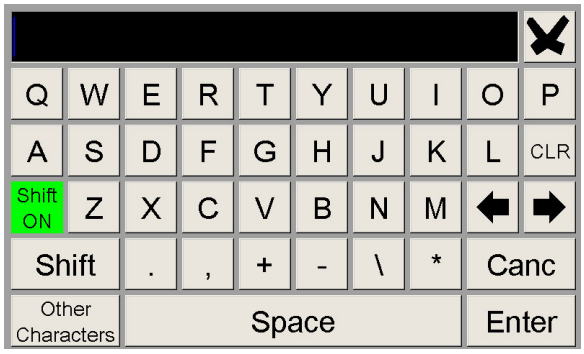
Functions and access levels

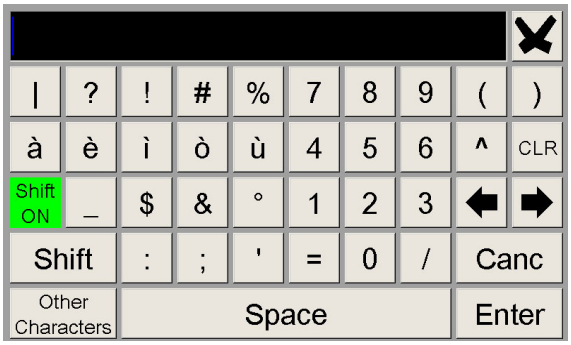
Functions	EN 54 level	Factory default password
Alarm and faults display	Level 1	none
Alarm and faults recognition	Level 1	none
Delay reset (appropriate button)	Level 1	none
Excluded zones/points display	Level 1	none
Exclusions menu	Level 2	22222
Test menu	Level 2	22222
Utility menu	Level 3	33333
Programming menu	Level 3a	44444

1.5.1 Description of using the keyboard to enter data in the programming folders

Use the arrows ◄ ► to enter the adjacent folders (displays).
Use the arrows ▲ ▼ to scroll through the fields inside the folder (the selected field is displayed with the characters in REVERSE).
If the folder has an index field, the first two function buttons appear and can be used for scrolling.
The selected field can be changed by making an entry in editing mode using the enter button.
There are different editing modes depending on the type of data:

- **Text entry (CBE, labels associated with devices, zones, etc.)**
  Use the keyboard displayed on the touch screen to enter alphanumeric characters.
- **Alphanumeric keyboard displayed on the touch screen:**
  This keyboard will be available on the touch screen when a programmable text needs to be edited:



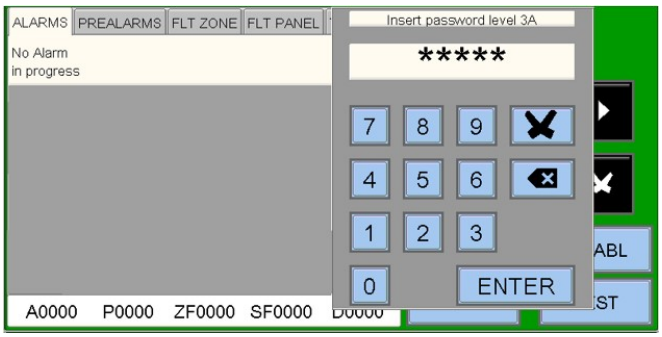


Selections (TYPE ID, YES, NO, etc.): press ENTER and use the arrows ▲ ▼ to scroll through all the selectable labels in sequence.

The parameter is saved using the enter button ✓.

If you do not want to save the changes, use the escape button ✘.

To exit the folder system, use the escape button ✘.
To enter passwords, when they are requested, use the numeric keyboard that appears on the screen. Confirm the entered password by pressing the **ENTER** button.

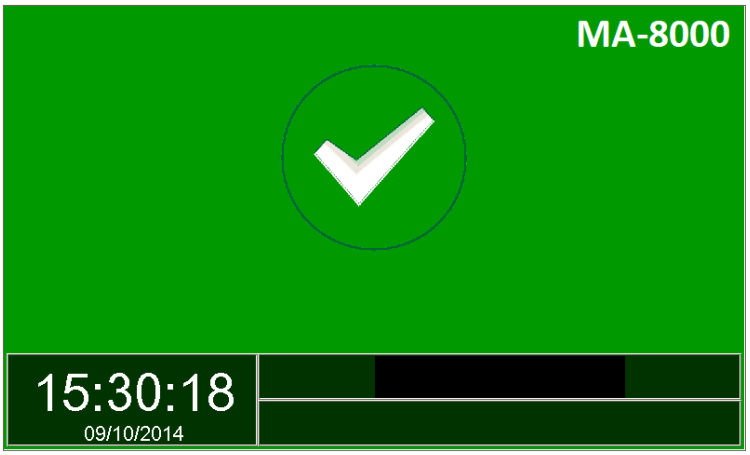


<u>If an invalid password</u> is entered, the following message will be displayed: "**Invalid password! xxxxx**" where "**xxxxx**" is a five-character code.

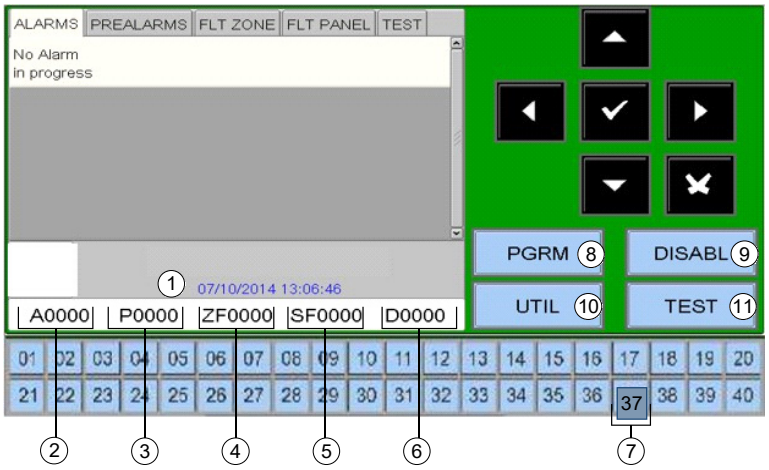
If the programmed password has been forgotten, it can be obtained from **Honeywell technical service** by providing this code**.**

1.5.2 Normal condition

The following screen is displayed when the control panel is in **normal condition.**



If you tap on the screen, the following screen is displayed.



①	Date - time	
②	Alarm zones counter	
③	Pre-alarm zones counter	
④	Fault zones counter	
⑤	System faults counter	
⑥	Disabled zones counter	
⑦	Virtual zone LED - zonal indication: Green = OK Dark Blue = TEST Red = FIRE Light Blue = Disablement Yellow = FAULT	
⑧	Function associated with PGRM key input of the program menu	➔ refer to Programming menu
⑨	Function associated with DISABLE key input of the disable menu	➔ refer to Disable menu
⑩	Function associated with TEST key input of the test menu	➔ refer to Test menu
⑪	Function associated with UTIL key input of the utility menu	➔ refer to Utility menu

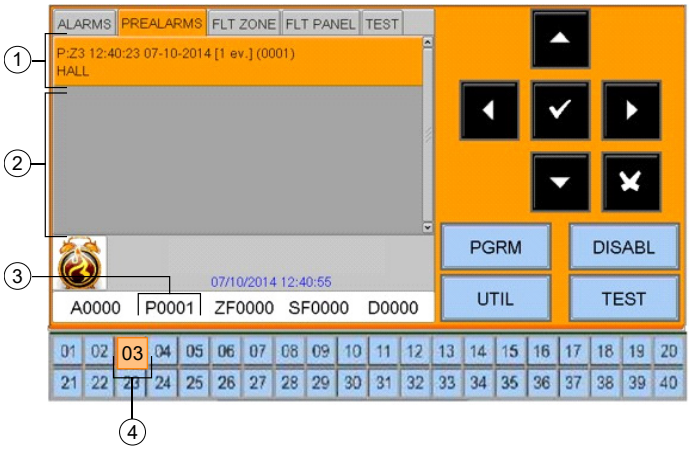
Icons that indicate the panel conditions

✓	➔ The icon appears if there are no alarms or faults.
	➔ If there are **pre-alarms** the alarm clock icon is displayed.
	➔ If there are **alarms** the fire icon is displayed.
	➔ If there are **faults** this icon is displayed.

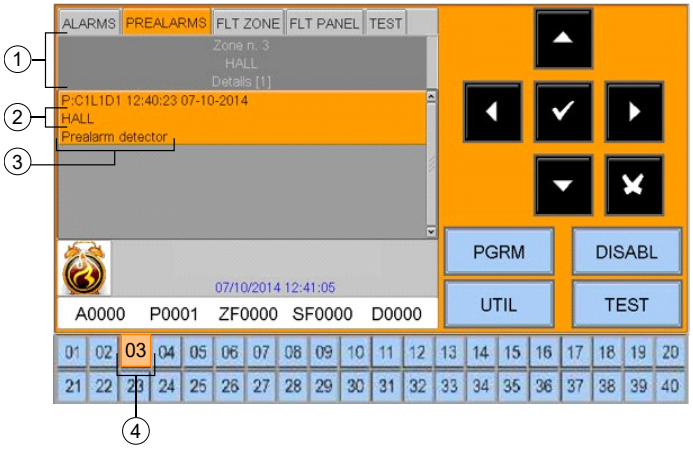
The alarm state overrides all other event types if both alarms and faults are present.

1.5.3 Pre-alarm condition

The following screen appears when the control panel is in the zone pre-alarm condition:



①	• First zone in pre-alarm • Time, date, progressive event • Programmed text for the zone
②	Any subsequent zones in pre-alarm
③	Zone counter in pre-alarm
④	Zone virtual LED on

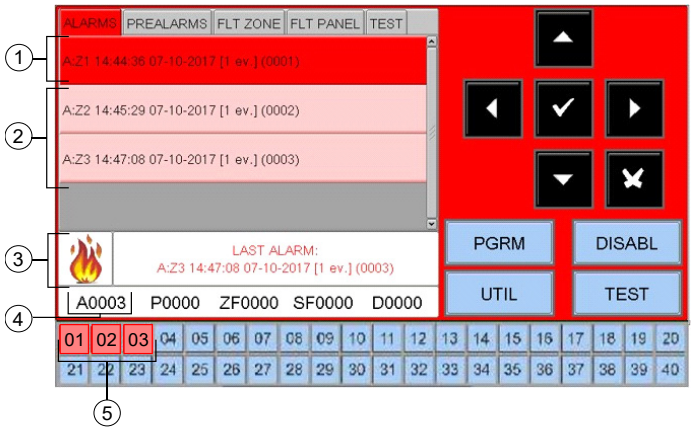


Use the arrow buttons ▲▼ to scroll through the list of pre-alarm zones. By pressing the enter button ✓ you will access the list of points in the pre-alarm of the selected zone; by using the arrow buttons ▲▼ you can scroll through the list of alarm devices.

①	Zone view window
②	Pre-alarm device
③	Text programmed for the device
④	Zone virtual LED on

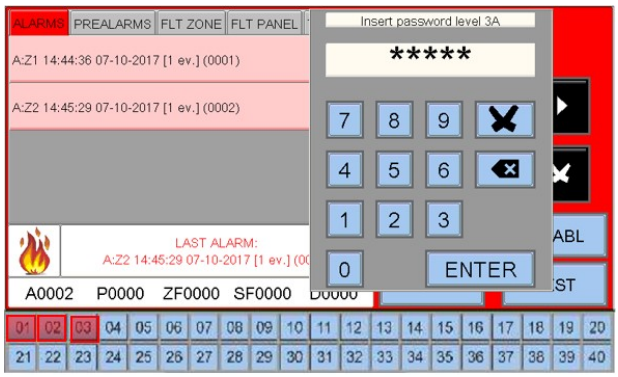
1.5.4 Alarm condition

The following display appears when the control unit is in the zone alarm condition:



Using the arrow buttons ▼ you can scroll through the list of the zones containing faults.
By pressing the enter button ✔ you can access the list of points in alarm of the zone selected on the display; by using the arrow buttons ▲ ▼ you can scroll through the list of the devices in alarm.

①	**FIRST ZONE IN ALARM STATUS** ➔ date and time + event number ID ➔ text for the zone
②	If more zones are in alarm status: TWO ZONES IN ALARM STATUS
③	LAST ZONE IN ALARM STATUS ➔ date and time + event number ID
④	Counter for zones in alarm status
⑤	Zone virtual LED on



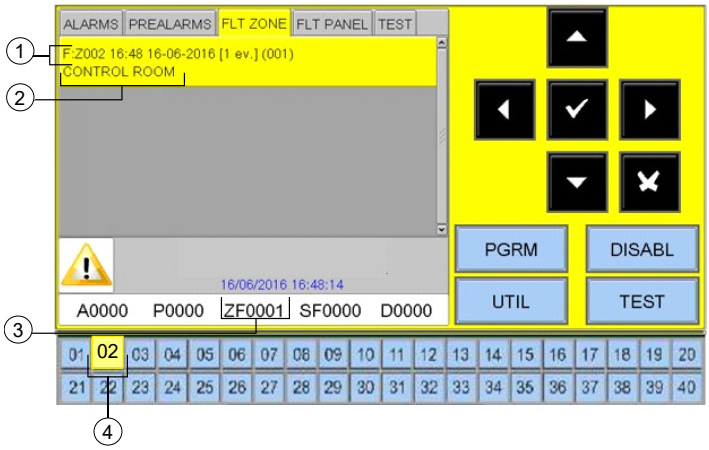
Device in alarm status
D = detector
M = module

Text programmed for this device

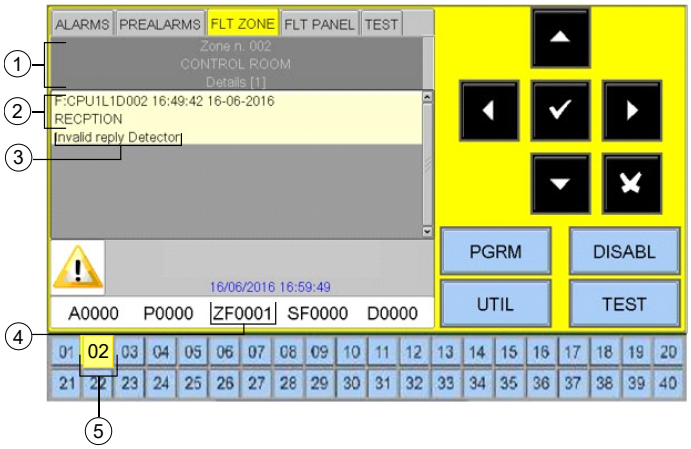
Alarm display in stand-by condition

1.5.5 Zone fault event condition

The following display appears when the control panel is in zone fault condition. Fault events are also initially displayed for the zone.

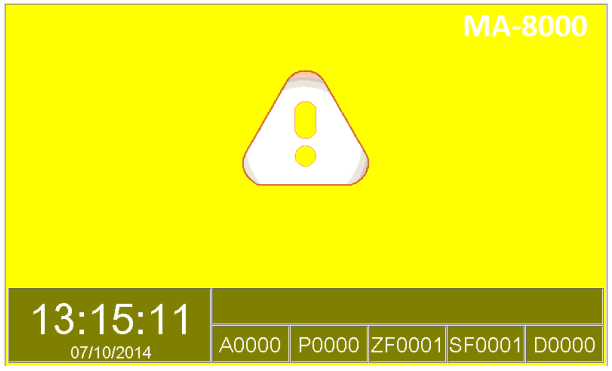


①	Zone with fault events
②	Text programmed for this zone
③	Counter for faulty zones
④	Zone virtual LED on



Pressing on the escape button ✖ or leaving the keypad inactive for 30 seconds will allow you to return to the list of faulty areas.

①	Detail of the device in fault condition
②	Text programmed for the device
③	Fault type description
④	Counter for faulty zones
⑤	Zone virtual LED on



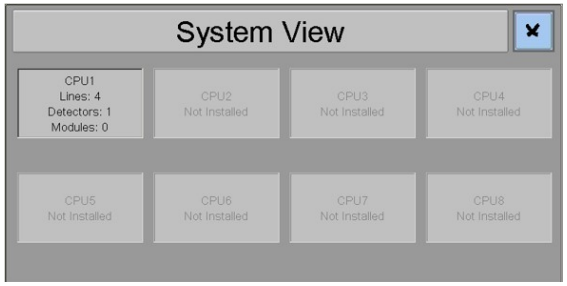
Fault display in stand-by condition

2 UTILITY MENU

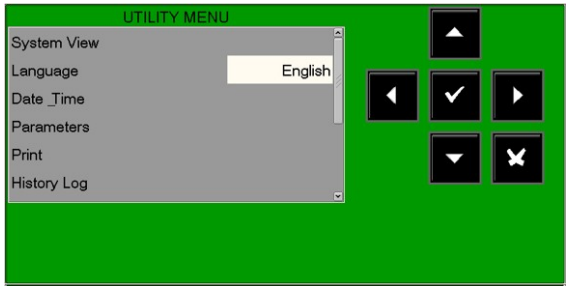
Selecting UTIL from the main system screen will take you to the Utility menu, which includes some functions generally used by servicing personnel.

To access the menu, enter the level 3 password (**33333** is the default password). To enter the password, refer to the editing function previously mentioned in the description of the keyboard operation.

The following menu is displayed:

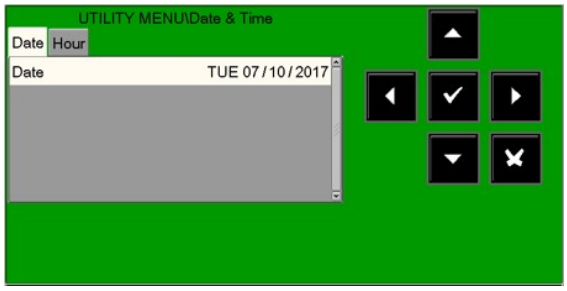


UTILITY – System View: displays the system CPU configuration.



UTILITY - Language: it is possible to select different system languages from the available options.

UTILITY - Date & time: this function allows you to set the time and date of the control unit.

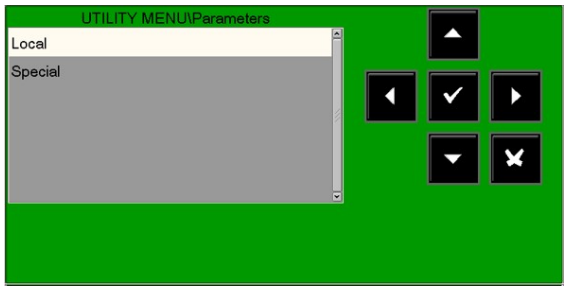


Date

Hour

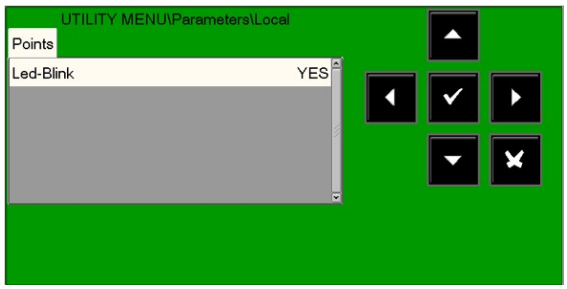
To change values in "**Date & time"** tabs, use the arrows ◂ ▸ to select the field to be changed (the characters of the selected field are white on a dark background).
Use the arrow buttons ▴ ▾ to change the value. When you have finished, press the enter button ✔ to save the value.

2.1 Parameters



By selecting the **“Parameters”** option, you can configure the local and special parameters as shown in the following figures:

2.1.1 Local parameters



If “NO” is selected for the “LED blink” function, then the LED flashing is disabled for **all the points** recognised during the line interrogation.
This function can be used in some environments such as hospitals, hotels, etc.

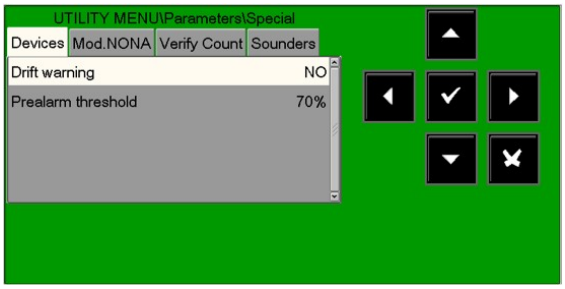
The LED flashing can also be disabled for each point (refer to the sensor and module programming paragraphs).

To enable/disable the ”LED blink“ function, press the enter button ✓ then use the arrow buttons ▲▼ to change the value; when you have finished, press the enter button ✓ to confirm.

2.1.2 Special parameters

This menu has five programming folders:

1. Programming the DRIFT WARNING FUNCTION

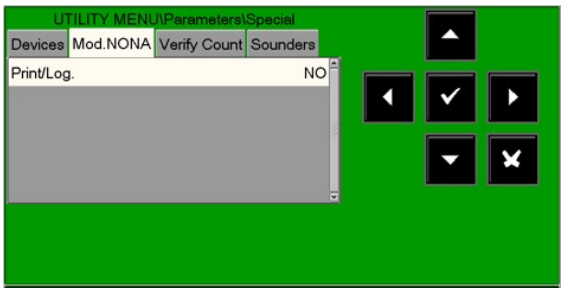


To change the "**Drift warning"** function, press the enter button ; use the arrow buttons ▲ ▼ to change the parameter; when you have finished, press the enter button to confirm.

DRIFT WARNING – when this function is enabled, the control unit generates a signal when the sensors exceed 70% of the alarm threshold for more than five minutes.
This indication can be used as a warning that the optical chamber for smoke detectors needs to be cleaned. This function is a general enable parameter valid for all the control unit points. The drift warning function does not replace the maintenance request, which is always enabled in any case. It is activated when a sensor detects a value higher than 80% of the alarm threshold for more than 36 consecutive hours.

Detector pre alarm threshold
Programmable in the range 30 % ... 99 %. The default is 70 %.

2. Mod. NONA: enable display & log in history file for events of modules with SW TYPE ID NONA



Selecting "NO" will disable the printing and saving in the history file of events in alarm status from input modules programmed with SW TYPE ID **NONA**.

To change the option, press the enter button and use the arrow buttons ▲ ▼ to change the parameter; when you have finished, press the enter button to confirm.

3. **Verify count**: change the line reliability parameters

Invalid Reply: enter the parameter to report the fault for invalid reply (expressed in number of interrogation polling on the line). Default value = 05.

Type-ID: enter the parameter to signal type ID invalid fault (expressed in number of interrogation polling on the line). Default value = 08.

Open-C: enter the parameter to signal open circuits fault (expressed in number of interrogation polling on the line). Default value= 10.

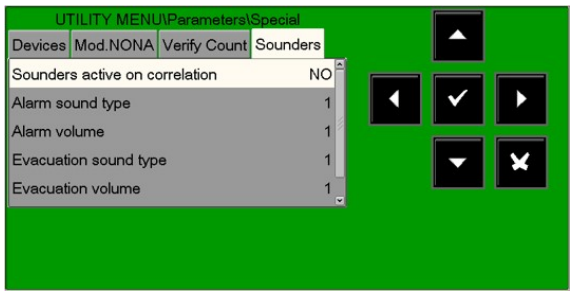
Low Chamb.: enter the value to signal a fault for smoke detector low chamber value (expressed in number of interrogation polling on the line). Default value= 20

Maint.: enter the parameter to signal the maintenance shutdown. (expressed in minutes). Default value = 216.

To change one or more parameters in this folder, select the parameter using the arrow buttons ▲▼ (the characters of the selected field are highlighted), press the enter button ✔ and use the arrow buttons ▲▼ to change the parameter. When you have finished, press the enter button ✔ to confirm the values.

Increasing the values of each parameter will make the control unit less sensitive for the fault signalling for the points installed on the lines.
Decreasing the values of each parameter will make the control unit more sensitive for the fault signalling for the points installed on the lines, and the fault warning message will be activated: **"Line changed par."**

4. **Sounder**: this tab is dedicated to programming the siren outputs (all devices programmed with SW TYPE ID SND). The user can program the following items:



Sounders active on correlation: if this function is enabled, when there is an alarm siren associated with this zone will be activated only if the programmed correlation number for the alarm zone is reached (see ZONE programming paragraph).

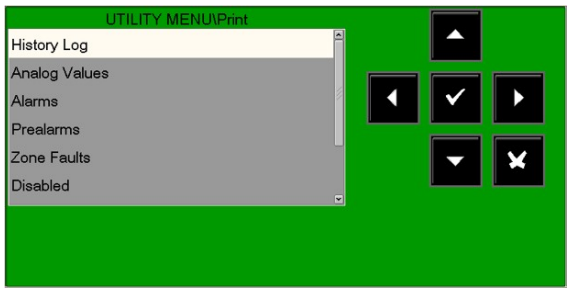
Alarm sound type: sound tones in the event of an alarm from addressed devices (values from 1 to 32 permitted. For details, refer to the technical data sheets for the sirens).

Alarm volume: in the event of an alarm from addressed devices (values from 1 to 4 permitted. For more details, refer to the technical data sheets for the sirens).

Evacuation sound type: sound tone when activating the central evacuation control (values from 1 to 32 permitted. For more details, refer to the technical data sheets for the sirens).

Evacuation volume: values from 1 to 4 permitted. For more details, refer to the technical data sheets for the sirens).

Print tab: to access the list of options dedicated to printing events.



Prints the contents of the **history log**.

Prints the **analogue values of the programmed sensors** in the control panel.

Prints the list of **alarm points** in progress.

Prints the list of **pre-alarm points** in progress.

Prints the list of **zone in faults** in progress.

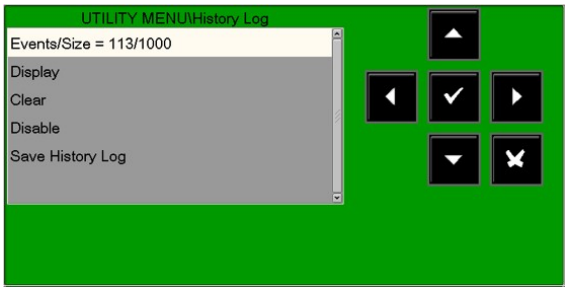
Prints the list of **excluded points**.

Prints the list of **active input modules**.

Prints the list of **active output modules**.

3 UTILITY - history log

The history log has a capacity of 10.000 events. Once the maximum number of events in the memory has been reached, when a new event occurs the panel clears the oldest event from the event log and saves the new one.



Events/Size: displays actual memory use in the history log.

Display: this function allows the events in the history file to be visualised.

Clear: the clear function will delete all events in the history file.

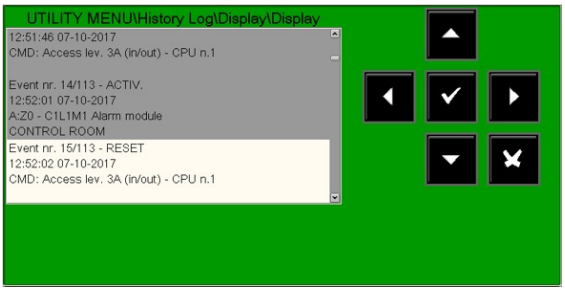
Disable: this function disables the saving of all the events (alarms, faults, etc.). Saving is enabled **by default**.

Save History Log: this function will save the history log file on a memory stick in the USB port.

History log display: this function allows the events in the history file to be visualised on the panel display.

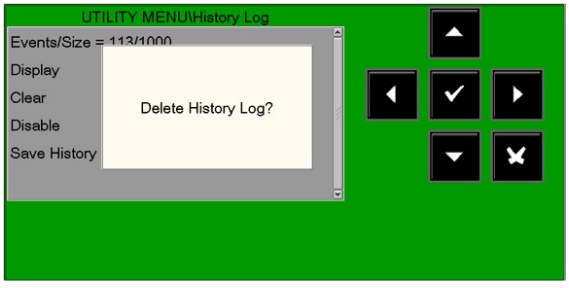
Enter the start date and time for the search and press the enter button ✔ to confirm.
Select YES/NO to filter the type of events to be displayed.

To change one or more parameters in this folder, select the parameter using the arrow buttons ▲▼ (the characters of the selected field are highlighted), press the enter button ✔ and use the arrow buttons ▲▼ to change the parameter. When you have finished, press the enter button ✔ to confirm the values.



Selecting **Display** will display the first two events.

Use the arrows buttons to scroll through the list of all events.

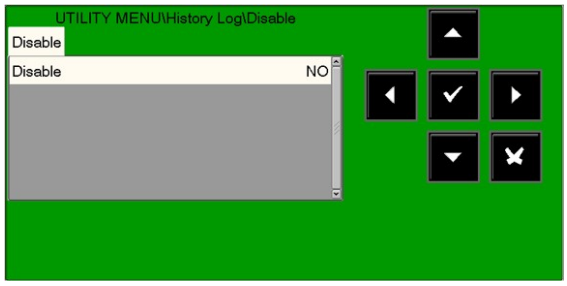


This display appears when the **"Clear"** function is selected:

Press the enter button ✔ to delete all events stored in the history log.

Disable history log: if the "**disable"** function is activated, no new events arriving from either the detection lines or the repeaters will be saved in the history log.

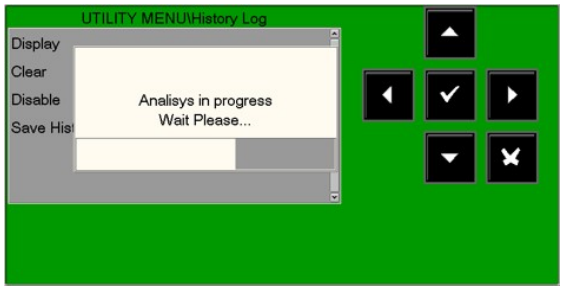
If the history log is disabled, a system fault is reported in the faults list.



To change this parameter in this folder, press the enter button and use the arrow buttons ▲ ▼ to select **YES or NO.**

The **disable** function is set to **NO** by default.

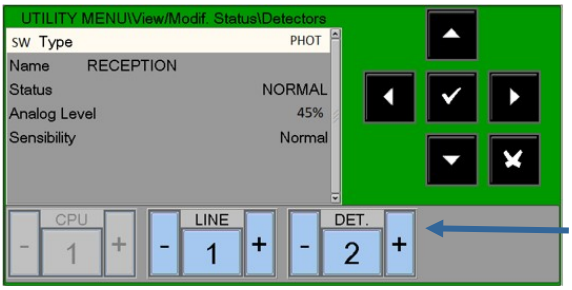
Save history log: this function will save the history log file on a USB memory stick.



4 UTILITY - VIEW/MODIFY STATUS

This function allows you to examine the status of a point and, in the case of a detector, the analogue value can also be displayed. This value will be displayed as a percentage with respect to the alarm threshold programmed for that device.
Parameters relevant to modules, zones or software groups that have been programmed can also be displayed.

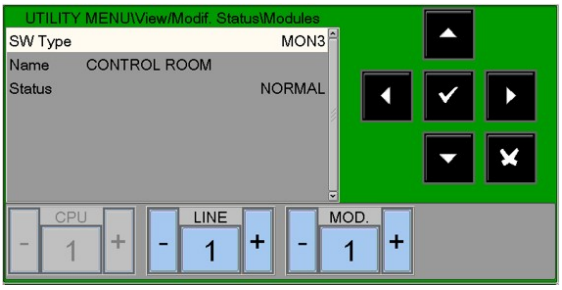
Detector status
The display shows the first device of the first line by default. To select another device, use the function buttons.



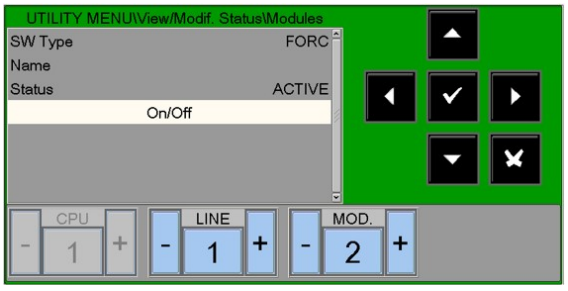
Module status depends on module type (input or output).

Use **- LINE** or **+ LINE** to display previous/next Line
Use **- DET.** or **+DET.**
to display previous/next detector.

Module Status
The display shows by default the first device of the first line. To select another device, use the function buttons.



Module status depends on module type (Input or Output)



Modify the output status of a control module

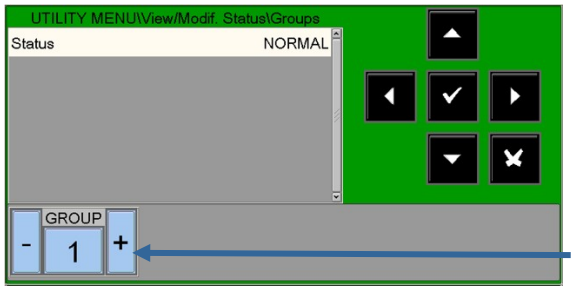
After selecting the **"On/Off"** field using the arrow buttons ▲▼, the user can switch the control module output by pressing the **OK** ✔ button.
This action is indicated as:

Activated = ON

Deactivated = OFF

Groups status

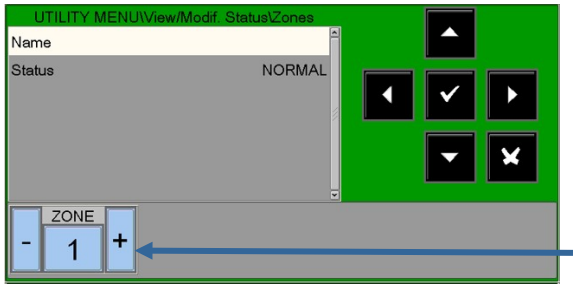
The display shows the first group by default. To select another group, use the function buttons.



Use **– GROUP** or **+ GROUP** to display the previous/next group.

Zones status

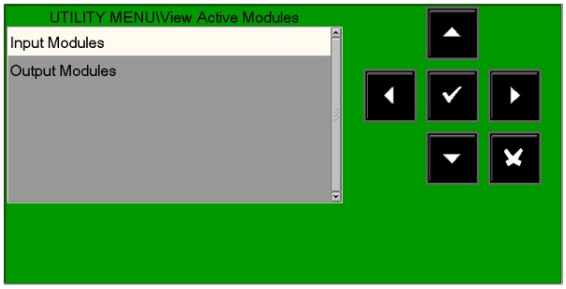
The display shows the first zone by default. To select another zone, use the function buttons.



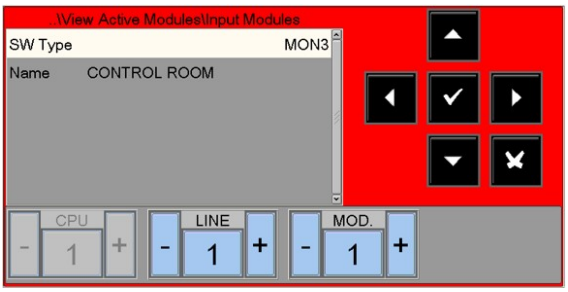
Use **– Zone** or **+ Zone** to display the previous/next zone.

4.1 UTILITY – ACTIVE MODULE LIST

You can use this function to examine the lists of active modules that are connected to the control unit lines.

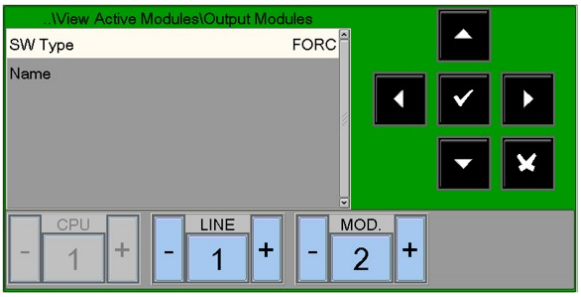


Input modules
Active input modules are displayed as follows:



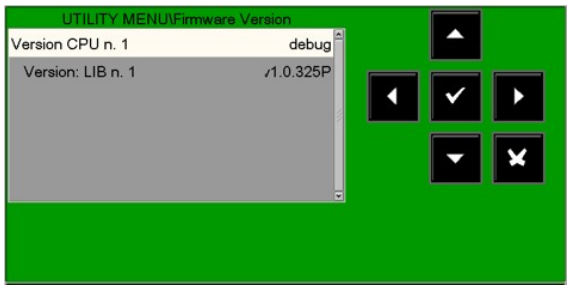
The following comment is provided for a line where there are no alarm input modules:
"No active input module"

Output modules
Active output modules are displayed as follows:



The following comment is provided when there are no active output modules in a line as shown in the figure below:
“No output module active”

4.2 UTILITY - FIRMWARE version



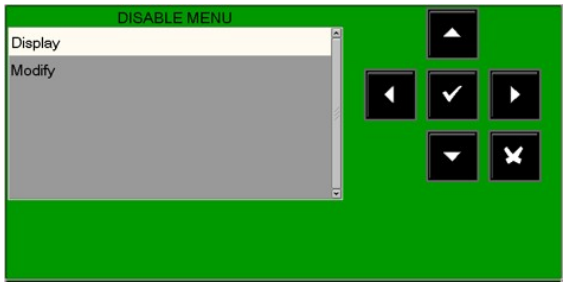
The servicing personnel can use this function to display the firmware version installed in the MAx control unit CPU, LIB card and LCD display.

4.3 Firmware update

This function will upload a new version of the firmware from a USB memory stick inserted into the dedicated port.

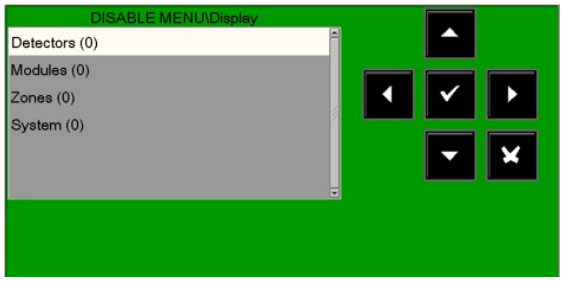
This operation must be authorised by Honeywell Technical Service.

5 DISABLE MENU



By pressing the **DISABL** function button in the main system status screen, you can access the disable menu, where detectors, modules, zones, etc. can be disabled.

This menu is displayed.

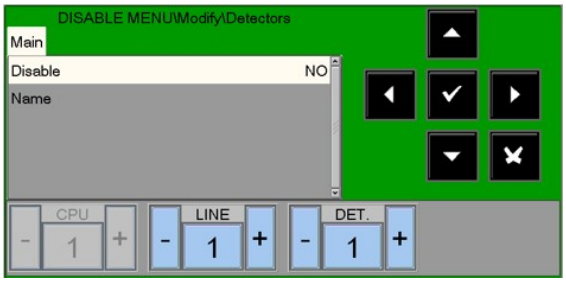


By selecting the display option, the user can access the following menu where devices are displayed according to type:
Counters for the number of disabled devices according to type.

To display the disabled device list, use the arrow buttons ▲ ▼ to select the type of device, and press the enter button ✔ to confirm the selection.

Selecting the **modify** option, and **entering the correct level 2 password,** will bring up the following display, where it is possible to change the enabled/disabled status for the various devices:

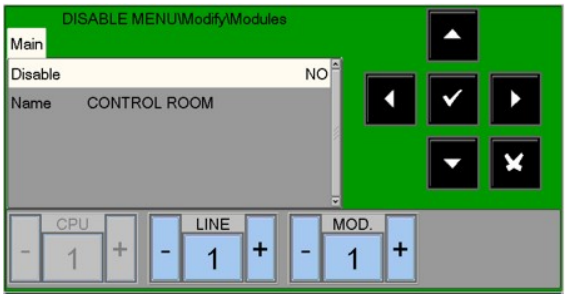
Modify status - detectors
The display shows the first device of the first line by default. To select another device, use the function buttons.



When a detector is **disabled**, the control unit is prevented from receiving alarms and fault signalling from the sensor.

To **disable** a detector, select it using the function buttons. Once the device has been selected, press the enter button ✔, use the arrow buttons ▲ ▼ to select **YES** and then press the enter button ✔ to confirm the disablement.

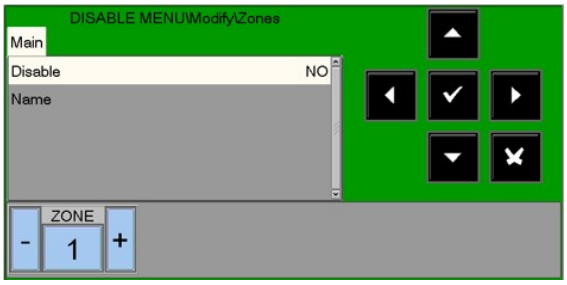
Modify status - modules
The display shows the first device of the first line by default. To select another device, use the function buttons.



When a module is **disabled**, the control unit is prevented from receiving alarms and fault signalling from the module.

To **disable** a module, select it using the function buttons. Once the device has been selected, press the enter button ✔, use the arrow buttons ▲ ▼ to select **YES** and then press the enter button ✔ to confirm the disablement.

Modify status – zones
The display shows the first zone by default. To select another zone, use the function buttons.

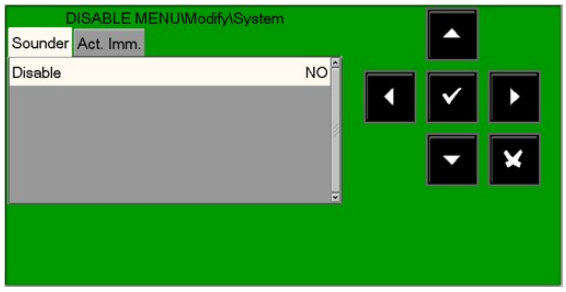


When a zone is **disabled**, the control unit is prevented from receiving alarms and fault signalling from all the points which belong to the zone.

To disable a zone, select it using the function buttons. Once the zone has been selected press the enter button ✔, use the arrow buttons ▲ ▼ to select “YES” and then press the enter button ✔ to confirm the disablement.

System disable
This procedure has three programming folders, where the editing function previously explained is used to enter data.

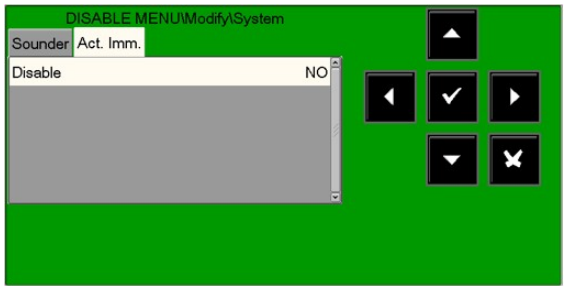
Sounder exclusion



To change this parameter in this folder, press the enter button ✔ and use the arrow buttons ▲ ▼ to select **YES or NO**. then press the enter button ✔ to confirm the value.

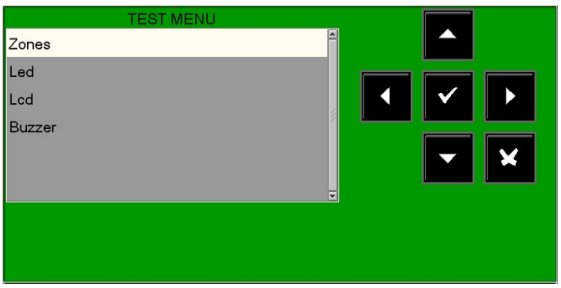
Excluding immediate activation of siren output

This feature allows the exclusion of the siren output and all the output modules programmed with SW TYPE ID SND. When the exclusion is activated for the immediate activation of the siren outputs, active exclusion and delay LED are turned on.
If there is an alarm event, the control panel delays the outputs mentioned for the times programmed in the programming menu (Prog\Sist\Usc. All. Timings).
During delay time, the active LED flashes and you can reset the delay using the delay reset button.



To change this parameter in this folder, press the enter button ✔ , and use the arrow buttons ▲ ▼ to select **YES** or **NO,** then press the enter button ✔ to confirm the entry.

6 TEST MENU



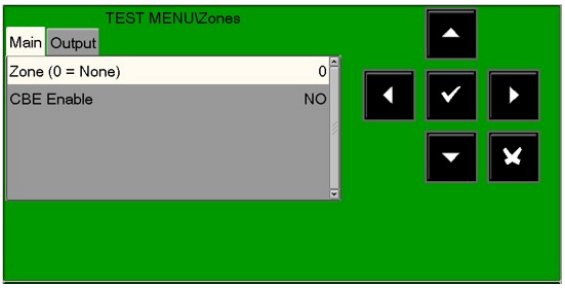
By pressing the **TEST** function button in the main system state display, you can access the test menu, which includes the functions generally used by the servicing personnel to test the system.

To access the menu, enter the **level 2 password** (**22222** is the default password).

To enter the password, refer to the editing function previously mentioned in the paragraph describing keyboard operation to enter data.

This menu is displayed.

Zones
This function allows you to start the walk-test procedure for a selected zone.
This procedure has two folders where the editing function previously explained is used to enter data.



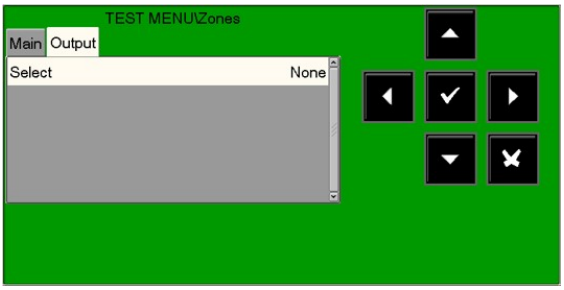
Enabling of a zone for the test function:

Enter the zone number for which the test function needs to be activated. **(0 = test zone OFF)**

CBE enabling
Select CBE Enable: YES
In the event of an alarm from the test zone devices
CBEs associated with them are activated

To change values in this folder, select the parameter using the arrow buttons ▲▼ (the characters of the selected field are highlighted), press the enter button ✔ and use the arrow buttons ▲▼ to change the parameter. When you have finished, press the enter button ✔ to confirm the entry.

Output selection
The output to be activated in the event of an alarm from a device in the test zone is selected in the subsequent programming folder.



In the "**Select**" field you can select one of the following items:

NONE: in the event of an alarm from the test zone, no outputs are activated.

SOUNDER: in the event of an alarm, both the siren output and all the output modules programmed via SW TYPE ID **HORN** are activated on every alarm event from the test zone. The activation duration is three seconds.

MODULE: in the event of an alarm from the test zone, the output module programmed in the **"Ind. Mod."** option is activated and on every alarm event it will be active for three seconds.

To change one or more parameters in this folder, select the parameter using the arrow buttons ▲▼ (the characters of the selected field are highlighted), press the enter button ✔ and use the arrow buttons ▲▼ to change the parameter. When you have finished, press the enter button ✔ to confirm the value.

LED
When the arrow buttons ▲▼ are used to select the LED option and the enter button ✔ is pressed to confirm, the control unit performs the lamp-test function (all the control unit LEDs flash for several seconds).

LCD
When the arrow buttons ▲▼ are used to select the LCD option and the enter button ✔ is pressed to confirm, the control unit performs the display test.

Buzzer
When the arrow buttons ▲▼ are used to select the buzzer option and the enter button ✔ is pressed to confirm, the buzzer will sound intermittently for several seconds.

Notes

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