



 **NOTIFIER**[®]
by Honeywell



AM SERIES

Analog Fire Panel

User Manual

AM-2000-N Versione software 0.13c
AM-4000 versione software 1.66c
AM-6000-N Versione software 019c

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ATTENTION: This manual refers to all the functions available in the software revision indicated in the cover

DEFINITIONS

LINE: Physical line where sensors, addressed sirens, possible input addressed modules for contacts and output addressed modules are connected.

POINTS: they are the addressed modules and sensors that can be connected to the control unit.

ZONES: they are point groups. They are used as basic indications to identify the position of an event. The maximum number of zones can be 150. A maximum of 32 points can be installed in each zone.

GROUPS: A group is a software set of devices that can perform associations. The control unit is provided with 400 GROUPS

FRONT PANEL CONTROLS AND SIGNALLINGS



AM-2000



AM-4000



AM-6000



EVACUATION: Control for the activation of the Siren output and of all output modules programmed through TYPE ID = HORN in the absence of alarms and breakdowns. If you press this button once more all the previously activated outputs will be deactivated. You must know the **level 2 password** to perform this operation.



RE-SET DELAYS: This button is active only in case of alarm if the immediate activation of the siren outputs in the exclusions menu has been excluded. The control unit delays the activation of the above-mentioned outputs for the programmed times in the programmed menu. (Prog) Sist\AI. Output Timing). During the delay time the Active Delay led flashes and it is possible to re-set the current delay through the Delay Re-set key.



BUZZER SILENCING: by pressing this key, the operator can silence the control unit buzzer and can perform a RESET.



SIREN OUTPUT SILENCING: In case of alarm the following devices are activated:

- Control unit Siren Output
- Output modules programmed through Type-ID **HORN**
- All the output modules activated for CBE associations

By pressing this key, you can de-activate the following devices:

- Control unit Siren Output
- Output modules programmed through Type-ID **HORN** enabled to the silencing
- All output modules activated through CBE associations and enabled for silencing



SIREN OUTPUT RE-ACTIVATION: If the "SIREN OUTPUT SILENCING" control has been previously performed, by pressing this key you re-activate the following devices:

- Control unit Siren Output
- Output modules programmed through Type-ID **HORN**
- All the output modules de-activated by the silencing control



RESET: the pressure of this key deletes the alarm or breakdown memory of the current points. It de-activates the siren and turns off all light signalings of sensors in alarm. To perform this operation you must know the **level 2 password**.

Keys to be used: DURING THE PROGRAMMING or TO ENTER THE PASSWORDS



ARROWS: they are used to perform some selections

NOTE: by pressing and holding one of these keys for more than 1 second, you obtain the key automatic repetition.



ENTER: after performing a selection, it confirms the entered datum



ESCAPE: "it goes back", that is, it deletes the last entered datum, or it has the menu exit function

F1

F2

F3

F4

FUNCTION KEYS: These keys activate the corresponding functions on the display in the status bar.

These functions change according to the selected menus.

Example: in the **system status** display, these keys allow the access to the Programming, Utilities, Exclusion menus or the Test menu.

LIGHT SIGNALLINGS OF THE FRONT PANEL

ALARM (Red):

It flashes if there is at least one device in alarm and it has not been recognized yet.
It is permanently lit if all alarm events have been recognized.

ACTIVE REMOTE ALARM (Red):

It is permanently lit if the output towards the fire alarm transmission devices (telephone dial) has been activated.

ACTIVE DELAYS (Yellow):

It is lit if the exclusion relevant to the immediate output activation has been performed; they are applied to type C outputs (siren output) and type E (alarm transmission through telephone dial). Through this active exclusion, in case of alarm the control unit delays the above mentioned outputs for the programmed times. During the delay time the led flashes and it is possible to reset the current delay through the delay re-set key operating at level 1.

EXCLUSIONS (Yellow):

It is lit when there is at least exclusion in the control unit. The exclusions are all those which can be operated in the exclusions menu.

BREAKDOWNS (Yellow):

It flashes if there is at least one breakdown of any type and it has not been recognized yet.
It is on if all breakdowns have not been recognized.

TEST (Yellow):

It is lit during walk test

VOLTAGE ON (Green):

It is permanently lit if the control unit is powered (by 230Vac or by batteries).

SYSTEM (Yellow):

It is lit if there is at least a system breakdown (watch dog breakdown, limited memory error, etc.)

POWER SUPPLIES (Yellow):

It is lit if there is a power supply breakdown.

EARTHING DISPERSION (Yellow):

It is permanently lit when the positive or negative is earthed.

SIREN (Yellow):

It is lit if the siren output is excluded.
It flashes when the siren output is in breakdown condition

BREAKDOWN TRANSMISSION (Yellow):

It is lit if the breakdown transmission output is excluded (telephone dial).
It flashes when the breakdown transmission output is in breakdown condition.

ALARM TRANSMISSION (Yellow):

It is lit if the alarm transmission is excluded (telephone dial).
It flashes when the alarm transmission output is in breakdown condition

FIRE-FIGHTING CONTROL (Yellow):

It is lit if the output towards the automatic fire-fighting systems is excluded
It flashes when the fire-fighting control output is in breakdown condition

SILENCED SIRENS (Yellow):

It is lit after the Siren Silencing control is performed.

USER INTERFACE DESCRIPTION

□ **Function List**

Functions	EN.54 Level	Factory default password
Alarm and breakdown display	Level 1	none
Alarm and breakdown recognition	Level 1	none
Delay Re-set (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 4	44444 + Internal jumper (refer to note)

Note. The reading in the non-volatile memory depends on the J1 jumper position (hardware key) on the back of the front side (display).

□ **Description of the keyboard operation to enter data in the programming folders:**

Through the arrows ◀ ▶ you can enter the adjacent folders (displays)

Through the arrows ▲ ▼ you can scroll 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 keys appear through which you can scroll

The selected field can be changed by entering in editing mode through the enter key ✓.

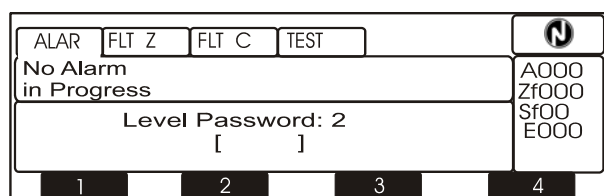
According to the type of datum there are different editing modes:

- **String entering (CBE, readings to be associated with: devices, etc.)** function keys
 F1 F2 F3 F4 are used (F1 capital/small letter selection, F2 letters/numbers/symbols selection, F3 enter, F4 deletes) through the arrows ▲ ▼ you can select the character for the current position through the arrows ◀ ▶ you can shift inside the string.
 To enter the alphanumeric characters use the keyboard.
- **Label entering (TYPE-ID, YES, NO, etc..)** : through the arrows ▲ ▼ all the selectable labels are scrolled in sequence
- **Addresses:** simultaneous editing of two numerical fields which are not editable for each single figure

The datum is stored through the enter key ✓ if you do not want to store the changes use the escape key ✕
 To quit the folder system use the escape key ✕.

To enter the passwords, when they are requested, select the required figure through the function keys

F1 F2 F3 F4 and confirm the entered password by pressing the enter key ✓.



If an invalid password is entered the following message will be displayed:

“Invalid password!: xxxxx” where **“xxxxx”** is a 5-character code

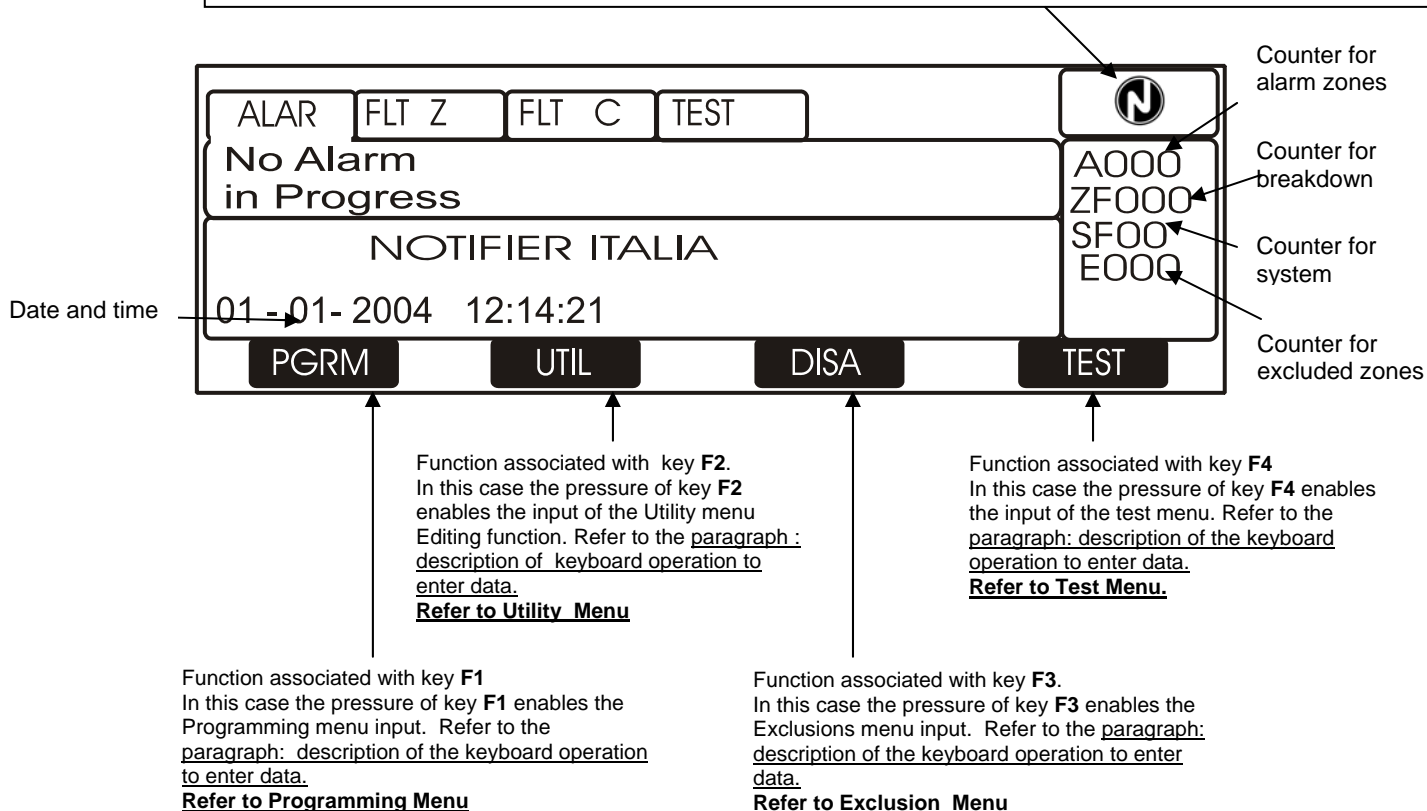
This code is used to obtain the password in case it has been forgotten, by signalling this code to **NOTIFIER** technical servicing.

Viewing information on display

□ Normal condition

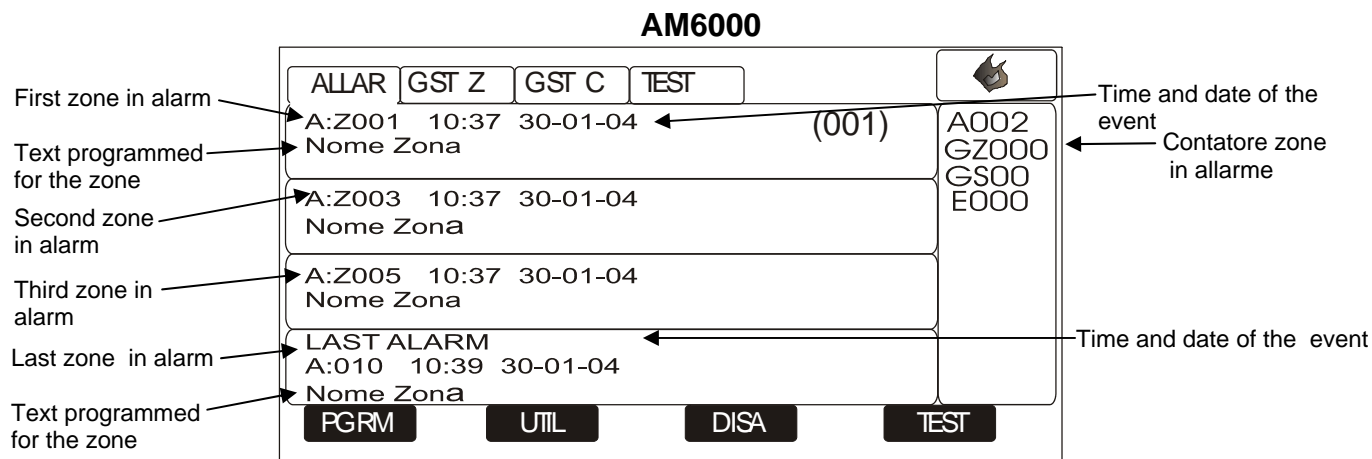
The following is displayed when the control unit is in normal operation (**System state**):

Icon which signals the control unit state. The symbol of the NOTIFIER brand appears in the absence of alarms and breakdowns.
 If there are excluded points or zones an exclamation point (!) is displayed.
 If there are alarms the Fire symbol is displayed
 If there are breakdowns the Triangle symbol is displayed.
N.B. The alarm state prevails if there are alarms and breakdowns in the control unit

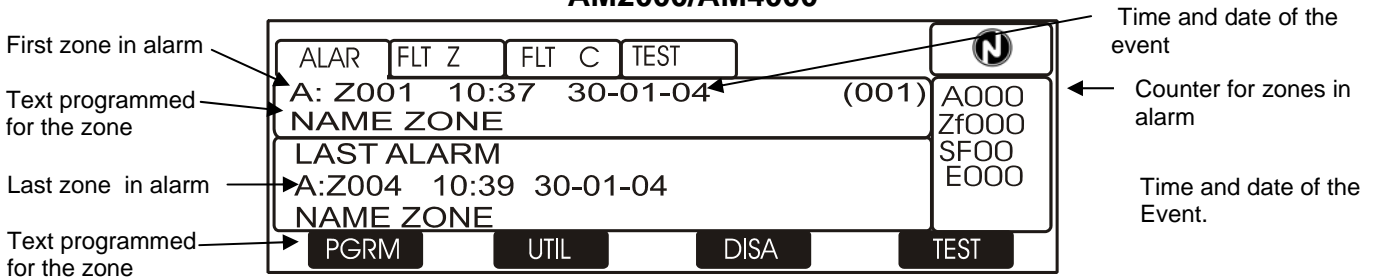


□ Condition with alarm zone events

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



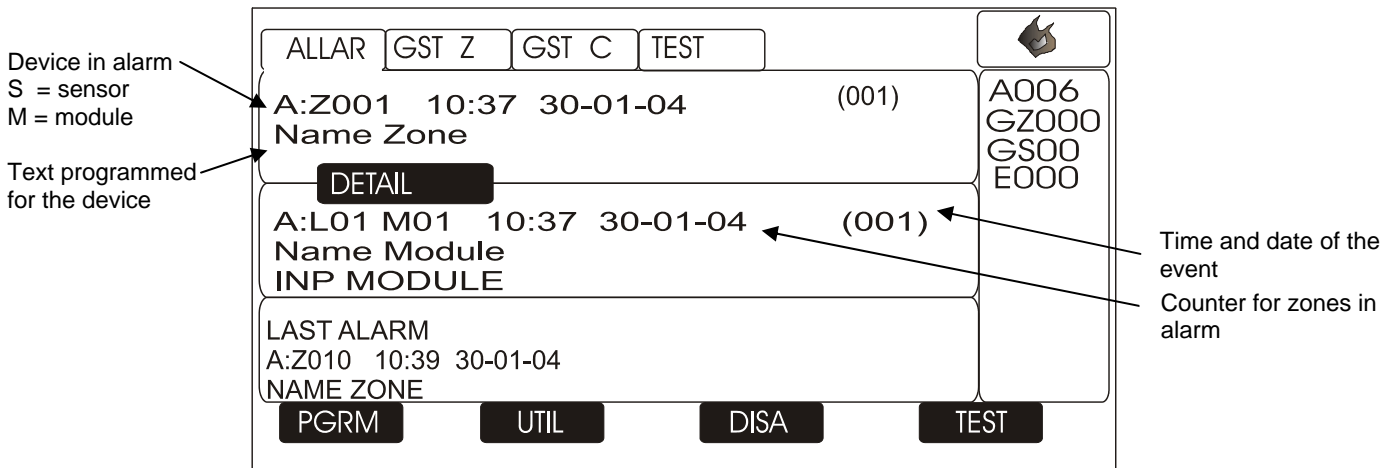
AM2000/AM4000



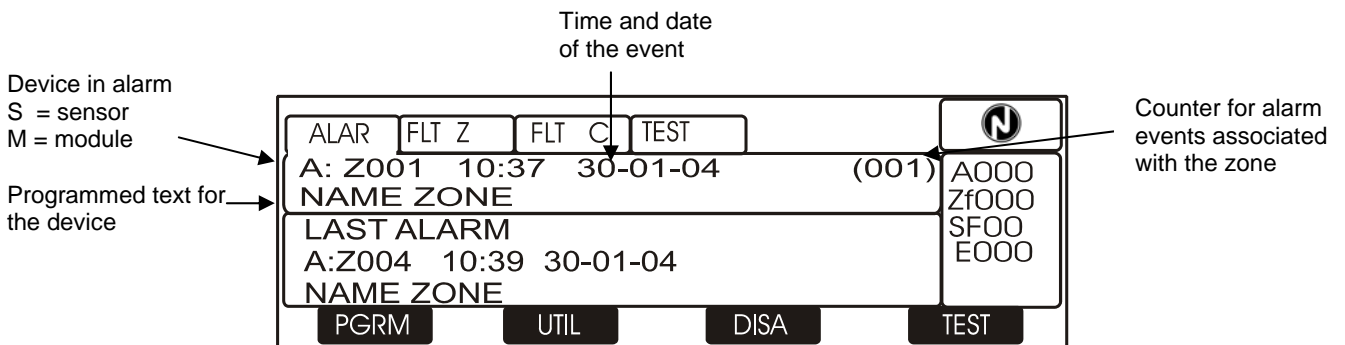
Through the arrow keys \blacktriangledown you can scroll the list of the breakdown zones.

By pressing the enter key \blacktriangleright you can access the list of point in alarm of the zone selected on the display, through the arrow keys \blacktriangle \blacktriangledown you can scroll the list of the devices in alarm.

AM6000



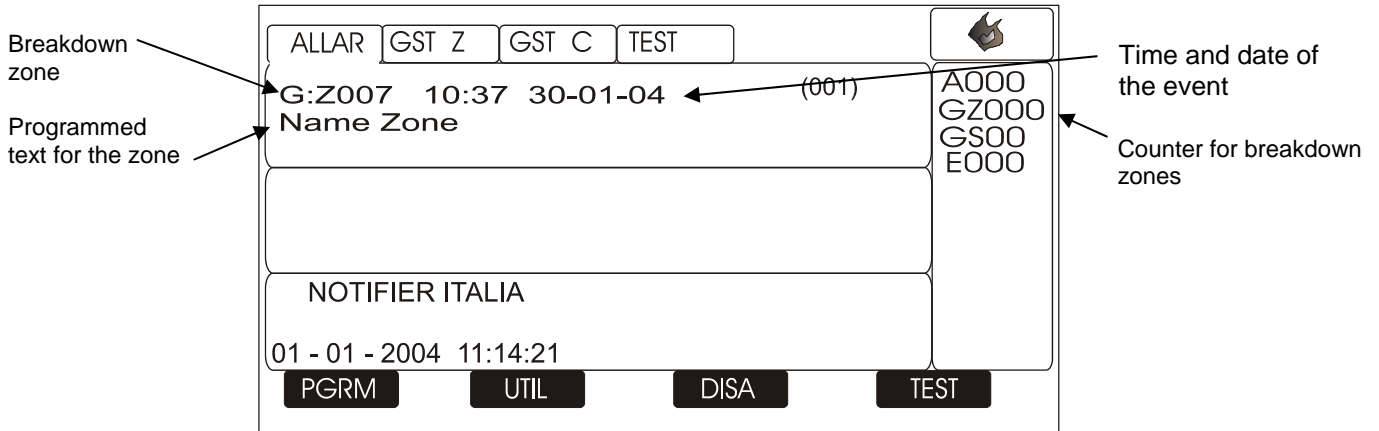
AM2000/AM4000



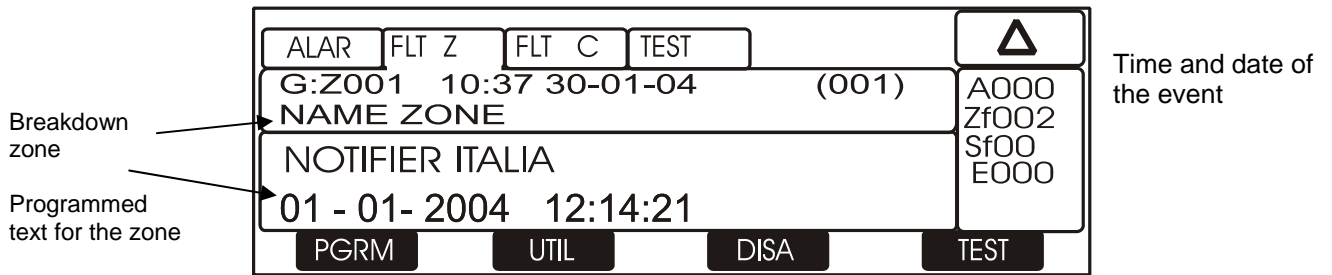
□ **Condition with breakdown zone events**

The following display appears when the control unit is in condition of zone breakdown. Breakdown events are also initially displayed for zone.

AM6000



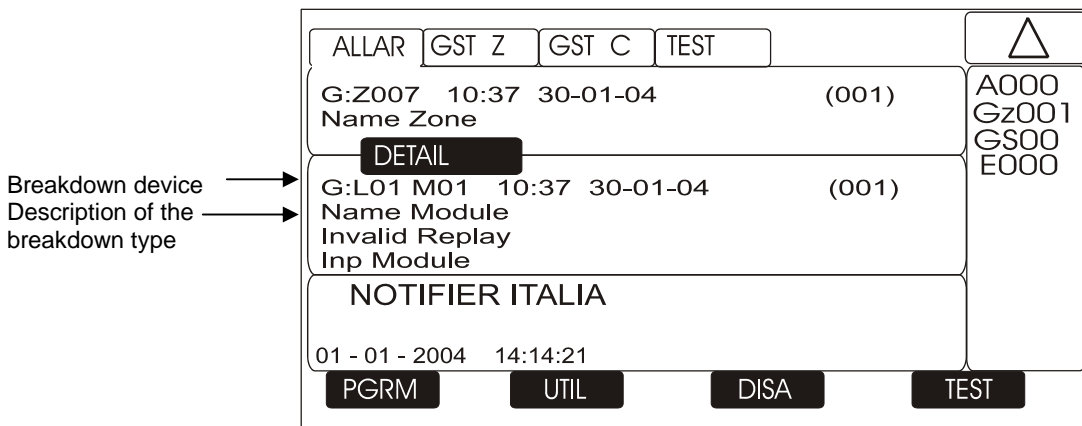
AM2000/AM4000



Through arrow keys ▲ ▼ you can scroll the list of the breakdown zone

Through a first pressure of the enter key you can display the list of devices with the indication of the point name; refer to the following figure:

AM6000



AM2000/AM4000

Breakdown device
Description of the
breakdown type

ALAR	FLT Z	FLT C	TEST	▲
G:L02D01 10:37 30-01-04 (001)				A000
NAME ZONE				Zf002
NOTIFIER ITALIA				Sf00
01 - 01 - 2004 12:14:21				E000
PGRM	UTIL	DISA	TEST	

Through further pressures of the enter key the display of the point name alternates with one of the breakdown detail, refer to the following figure:

Breakdown device
Description of the
breakdown type

ALAR	FLT Z	FLT C	TEST	▲
G:L02D01 10:37 30-01-04 (001)				A000
Invalid Replay				Zf002
NOTIFIER ITALIA				Sf00
01 - 01 - 2004 12:14:21				E000
PGRM	UTIL	DISA	TEST	

By pressing the escape key or by keeping the keyboard inactive for 15 sec. you return to the list of the breakdown zones

□ Condition with system breakdown events (control unit)

The breakdown events relevant to the control unit are defined as “system breakdowns” (ex. discharged battery, no mains, etc.). The system breakdowns are already displayed with the maximum detail level.

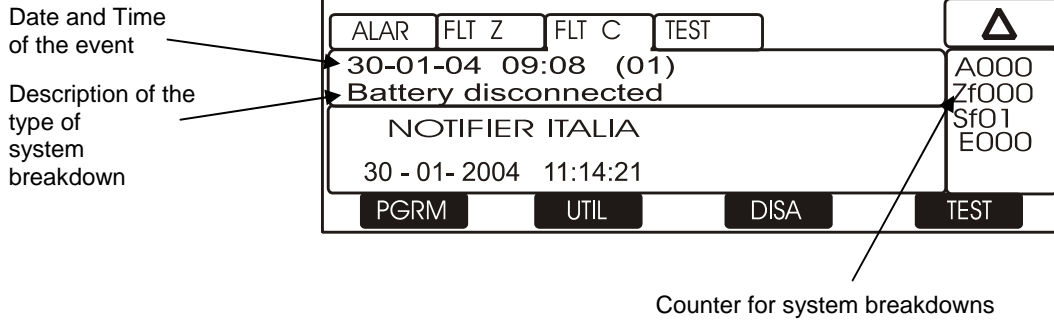
AM6000

Date and Time
of the event
Description of the
type of
system
breakdown

ALLAR	GST Z	GST C	TEST	▲
30-01-04 10:37				A000
Battery Disconnected				Gz001
				GS00
				E000
NOTIFIER ITALIA				
01 - 01 - 2004 14:14:21				
PGRM	UTIL	DISA	TEST	

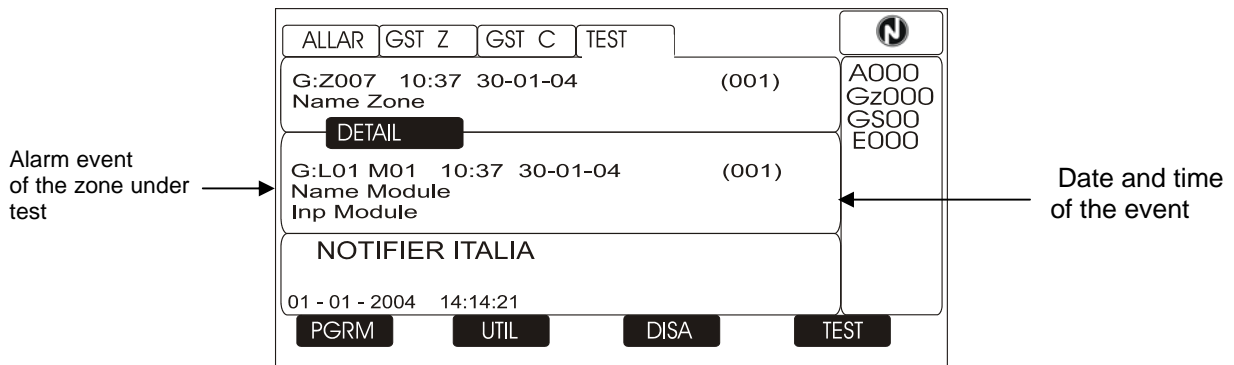
Counter for system
breakdowns

AM2000/AM4000

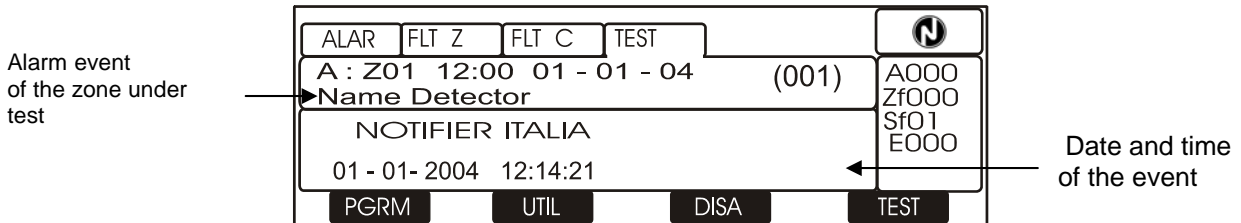


□ Condition with alarm events from a zone under Test

AM6000



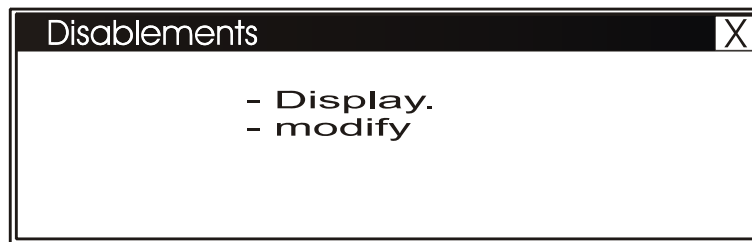
AM2000/AM4000



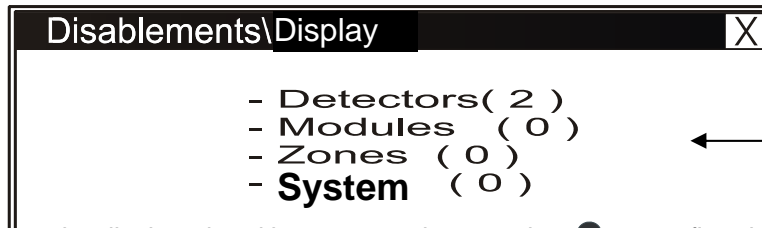
through the arrow keys \uparrow \downarrow you can scroll the list of the tested devices of the zone.

Displaying of lists of excluded devices and zones

From the main display, by pressing the function "F3" key you can access the main menu:



from which the user can select the "Display" function to access the following display :



Counters which indicate the number of excluded zones and devices

By selecting the typology to be displayed and by pressing the enter key to confirm the selection you can display the excluded devices, through the arrow keys you can scroll the list of the excluded devices.

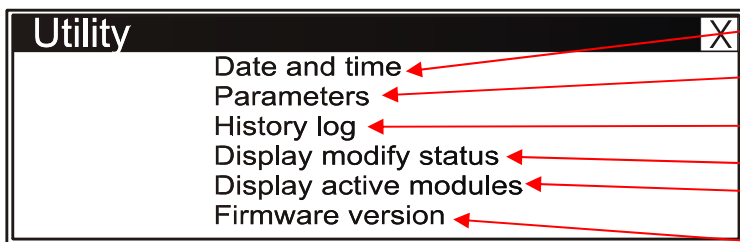
UTILITY MENU

By pressing the function key **F2** from the display of the system state you can access 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 consult the editing function previously mentioned in the paragraph description of the keyboard operation to enter data.

The following menu is displayed

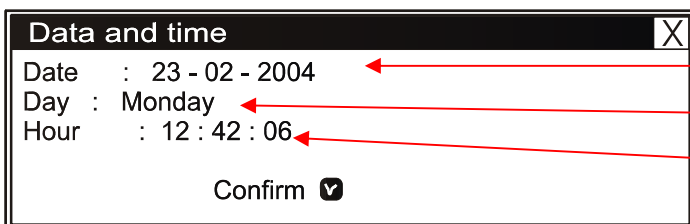


- Refer to paragraph **Date and Time**
- Refer to paragraph **Parameters**
- Refer to paragraph **Historical File**
- Refer to paragraph **State Displaying and State Changing**
- Refer to paragraph **Active modules displaying**
- Refer to paragraph **Firmware version**

Where:

□ Date and Time

This function allows to program the time and date of the control unit.



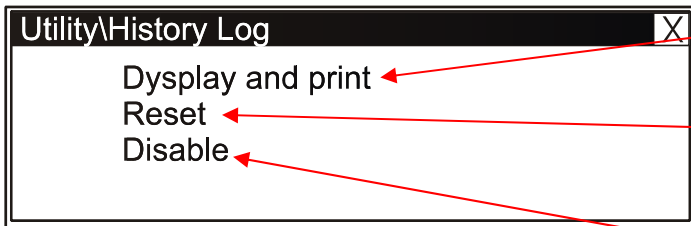
- Date Programming
- Day of the week programming
- Time programming

To change one or several data in the “**Date and Time**” programming Form use the arrows to select the field to be changed (the characters of the selected field are white on dark background).

Use the arrow keys to change the datum; at the end press the enter key to store the datum.

Historical file

Through this function, the user can display both the historical file and the cancellation. The historical file has a maximum capacity of 999 events. When 999 stored events are reached, the control unit in correspondence of a new event cancels the least recent event and stores the new event.



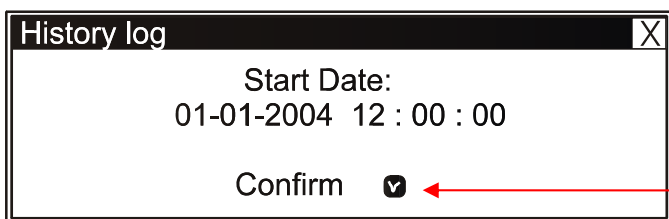
This function allows the display and the printing of the events in the Historical File.

The clear function, allows the total cancellation of the events in the historical file

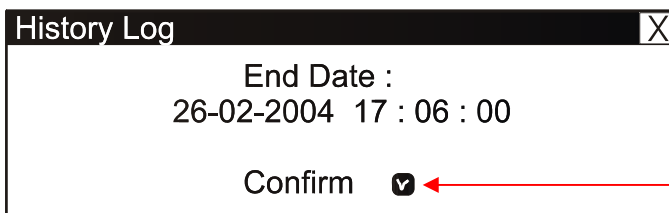
This function disables the storing of all the events (alarms, breakdowns, etc.). Default enabled.

□ **Displaying**

This function allows to display the historical file on the control unit display



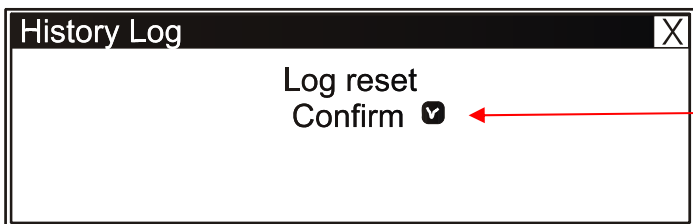
Enter date and time of the search start and press the enter **key** to confirm



Enter date and time of the search end and press the enter **key** to confirm. The first event is displayed by default. Use the arrow keys **▲ ▼** to scroll the event list in the historical file.

□ **Clearing**

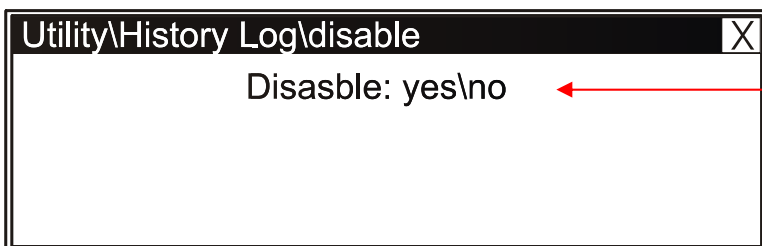
By selecting the function “Clear” the following display appears:



Press the **enter** key to perform the cancellation of all events stored in the historical event.

□ **Disabling:**

Through the “Disable” control (if activated) all new events arriving at the control unit from both the detection lines and the keyboard are not stored in the historical file.

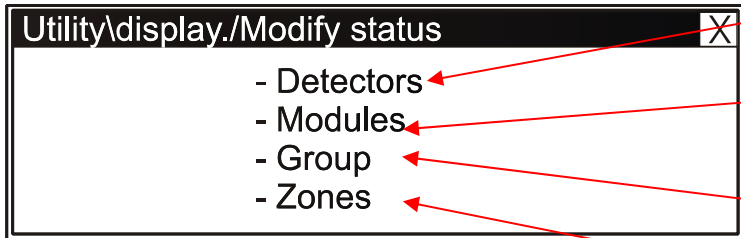


To change this parameter in this folder press the **enter** key and select through the arrow keys **▲ ▼** “YES” or “NO” **N.B.** the “Disable” function is “NO” by default.

□ **State Displaying/ State Changing**

This function allows to examine the state of a point and in the case of a sensor, the analogue value can 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 programmed can also be displayed.



Refer to paragraph **Sensor state displaying**

Refer to paragraphs **Input and output modules state displaying**

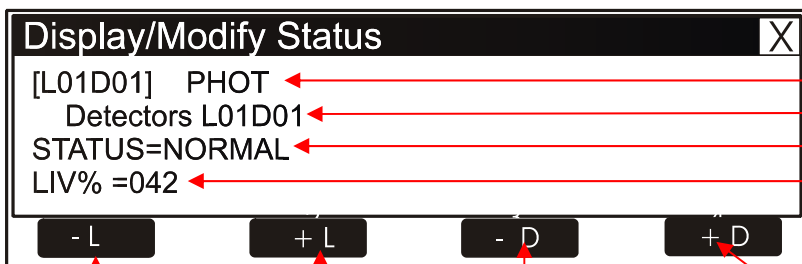
Refer to paragraph **Group state displaying**

Refer to paragraph **Zone state displaying**

Where:

- Sensor state displaying

The display shows by default the first device of the first line. To select another device use the function keys.



Point address

Programmable reading of the point

Point state

Analogue level

Press key **F1** to display a sensor of the previous line

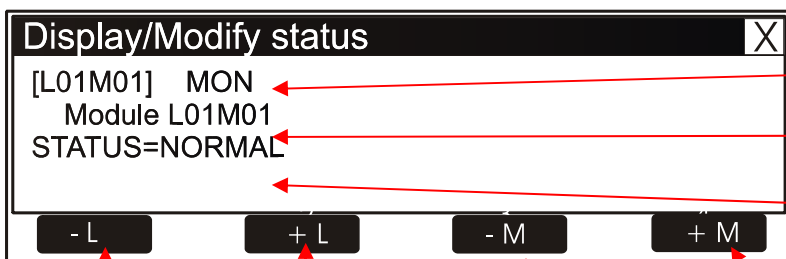
Press key **F2** to display a sensor of the subsequent line

Press key **F3** to display the previous sensor

Press key **F4** to display the subsequent sensor

- Input module state displaying

The display shows by default the first device of the first line. To select another device use the function keys



Point address

Programmable reading of the point

Point state

Press key **F1** to display a module of the previous line

Press key **F2** to display a module of the subsequent line

Press key **F3** to display the previous module

Press key **F4** to display the subsequent module

Output module state displaying

The display shows by default the first device of the first line. To select another device use the function keys

Point address

Programmable reading of the point

Point state

Through the arrow keys \wedge \vee the user can change the output module state
Activated = ON
Deactivated = OFF

Press key **F1** to display a module of the previous line

Press key **F2** to display a module of the subsequent line

Press key **F3** to display the previous module

Press key **F4** to display the subsequent module

- Group state displaying

The display shows by default the first Group. To select another Group use the function keys

Number of the displayed group

Group state

Press key **F1** to display the previous line group

Press key **F2** to display subsequent line group

- Zone state displaying

The display shows the first Zone by default. To select another Zone use the function keys

Number of the Zone displayed

Programmable reading of the point

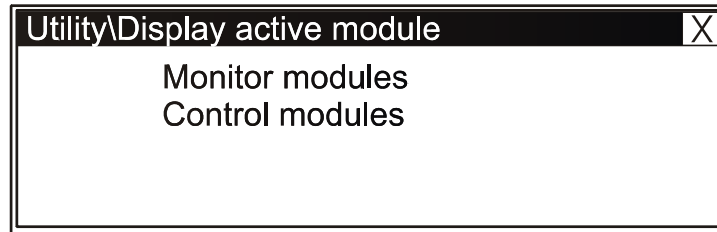
Zone state

Press key **F1** to display the previous zone

Press key **F2** to display the subsequent zone

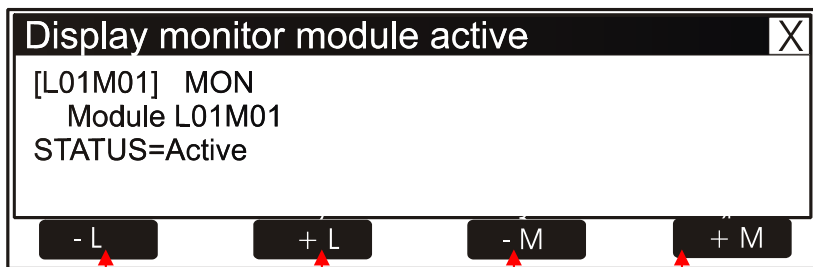
□ Active Modules Displaying

Through this function you can examine the active module lists which are connected to the control unit lines.



Where:

- Active input modules displaying



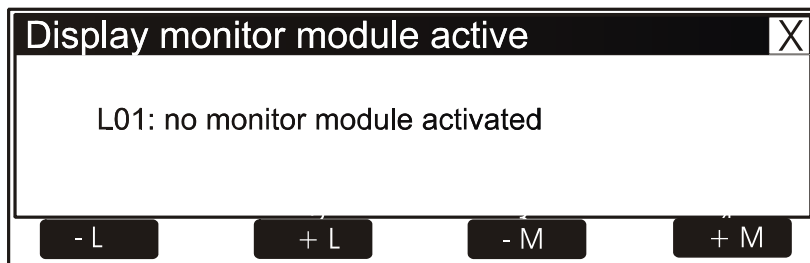
Press key **F1** to display a module of the previous line

Press key **F2** to display a module of the subsequent line

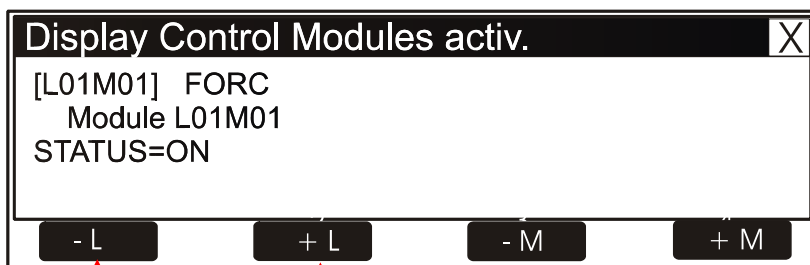
Press key **F3** to display the previous module

Press key **F4** to display the subsequent module

In case of no alarm input modules in a line, there will be the following indication shown in the figure below:



- Active output modules displaying



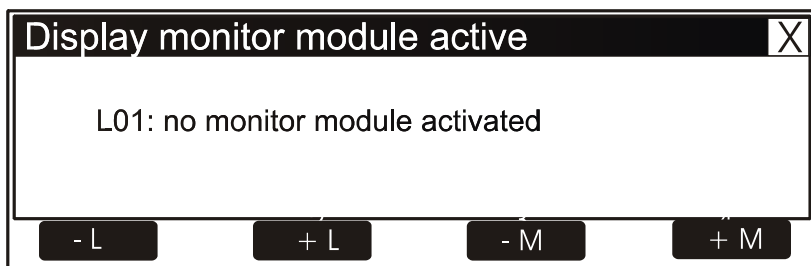
Press key **F1** to display a module of the previous line

Press key **F2** to display a module of the subsequent line

Press key **F3** to display the previous module

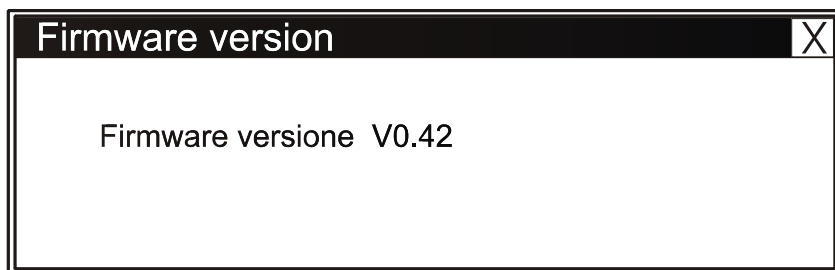
Press key **F4** to display the subsequent module

In case of no active output modules in a line there will be the following indication shown in the figure below:



FIRMWARE VERSION

Through this function the servicing control unit personnel can display the firmware version installed in the AM4000 control unit CPU (refer to the example in the figure below)



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