EL.MO. SPA

USER MANUAL

HEKLA SERIES

Control panels and signalling equipment

1 DECLARATION OF CONFORMITY AND PERFORMANCE

CE 20 no. 1328 – CPR – 0815

Standards: EN 54-2:1997/AC:1999/A1:2006
EN 54-4:1997/AC:1999/A1:2002/A2:2006

2 GENERALS

The fire alarm control panels HEKLA series control the devices of a fire protection system, monitoring up to 384 different zones.

3 ACCESS LEVELS

Panels functions can be accessed according to three different access levels:

- level 1 (public) – accessible to anyone via keypad
- level 2 (user) – accessible with user access code via keypad
- level 3 (maintenance/programming) – accessible with installer access code via keypad

On level 1, access is granted just to functions that can be used by the public:

- Button **Lamp Test**
- Area buttons **Queue Review**

Level 2 gives access to controls for authorized users:

- All other buttons
- User menu

Access to level 2

– press ENTER
– enter the user access code (default) △△△△△
Note: if you fail to enter the code within 10 seconds, the control panel returns to the previous screen.
– press ENTER

Return to level 1

– press ESC until the date and time come up

4 FRONT PANEL

The control panels can be controlled via the front panel on any fire alarm control panel, or a networked repeater panel.
HEKLA HLREPEATER
All functions and statuses are viewed and managed via the graphic display and coloured indicator LEDs on the panel.
If there is an alarm or a fault, its description comes up on the display.

▼ **Alarm message**
Fire [progressive number] Zone [zone number] C [control panel address] L [loop number] D [device address] [device type]
[zone name][device name]
Last alarm zone [zone number]
Number of zones in alarm state [number]

▼ **Fault message**
Control panel [panel address]
[fault description]
Total number of faults [number]

If there is more than one alarm or fault message, the relevant LED and/or flashes **Fire Fault**
– press the button by the LED to scroll through the list of alarms or faults
Once you have viewed all the alarms or faults present, the relevant LED stays steadily lit.

If no action is taken for 20 seconds, the first alarm event will come up again.
If, on the other hand, there are no alarm events, the first fault event will come up.

4.1 LED indicators meaning

HEKLA and HLREPEATER

LED name	Colour	ON steady	Blinking
Fire	Red	Fire alarm in progress	-
Fault	Yellow	Fault detected	-
Pre-alarm	Yellow	Pre-alarm in progress	-
Test	Yellow	Test in progress	-
Disabled	Yellow	Disabled devices present	-
System ON	Green	Active mode	Installation mode
Zones	Red	Fire alarm in progress	
Fire	Red	Fire events read	Fire events to read
Fault	Yellow	Fault events read	Fault events to read
Test	Yellow	Test mode active	-
Disabled	Yellow	At least one disablement active	-
Alarm Fault	Yellow	Active sounders fault	-
Supply Fault	Yellow	Battery or mains power fault	-
System Fault	Yellow	At least one control or repeater panel faulty	-
Buzzer Silence	Yellow	Buzzer active	-
Sounders Activate/Silence	Red	Active sounders	Recognition mode
Auxiliary Relays	Yellow	At least one output disabled	-
Sounders Disable	Yellow	At least one sounder disabled	-
Selected Detectors	Yellow	At least one sensor disabled	-
Delays Active	Yellow	Delay mode active	-

HLNODE

LED name	Colour	ON	Blinking
Fire	Red	Fire alarm in progress	
Fault	Yellow	Ongoing fault events	
Pre-alarm	Yellow	Pre-alarm in progress	
System ON	Green	Active mode	Installation mode

4.2 Buttons function

	Name	
	Level 1 function	**Level 2 function**
ENTER	Enters user/installer menu	Enters the selected menu. Moves to next field Confirms data.
△	---	Selects the next menu option. Changes the value of a field.
▽	---	Selects the previous menu option. Changes the value of a field.
▷	---	Moves to next field
ESC	---	Goes back to previous menu. Cancels the operation.
	List of fires	
	Scrolls through list of alarm events. The menu goes back to the default screen if no action is taken for 20 s.	
	List of faults	
	Scrolls through list of fault events. The menu goes back to the default screen if no action is taken for 20 s.	
	List of tests	
	If the control panel is in test mode, it scrolls through the list of sounders and zones still to be tested. The menu goes back to the default screen if no action is taken for 15 s.	
	List of disablements	
	Scrolls through the list of disabled auxiliary relays, I/O devices, zones, detectors and sounders. The menu goes back to the default screen if no action is taken for 15 s.	
	Silencing	
	---	Silences the buzzer.
	Reset	
	---	**Reset procedure: it resets the panel when it is in alarm or fault condition.**
	Lamp test	
	Hold down to run the lamp test: the LEDs come on and horizontal lines appear on screen	
	Sounder test	
	---	Switches all sounders on or off. The specially programmed I/O outputs are also affected.
	Disable outputs	
	---	Disables or re-enables all outputs, including fault and alarm outputs.
	Disable sounders	
	---	Disables or re-enables all sounders.
	Disable sensors	
	---	Disables or re-enables all specially programmed sensors.

	Delay mode	
	Cancels the delay in progress.	Enables/disables delay mode. Disabling delay mode while a delay is active cancels the delay immediately.

5 MENU PAGES BROWSING

The menu can be used to access several functions, divided in sub-menus as shown in section 7 *p. 3*.

Menu

– press △ and ▽ to scroll through the menu options
– press ENTER to access a menu option

Some options in turn contain their own menu, while others contain functions.

– press ESC to exit a menu

Functions

– press △ and ▽ to change the content of a field
– press ▷ to move the cursor or change loop
– press ENTER to go to the next field and save
– press ESC to go back to the previous field
– press ESC while on the first field to exit the function

6 OPERATION

Foreword

To understand certain functions, it is a good idea to be familiar with the process that leads from fire detection to fire notification.

Each loop address can be an input or an output, depending on the type of device connected to it.

The loop and motherboard outputs can be supervised (sounders) or not (I/O outputs).

Each loop input or output is assigned to a zone.

The I/O groups can contain 32 I/O inputs or outputs.

The common I/O group contains 256 devices and is always activated in the event of fire.

The sounder groups contain the behaviour in the event of activation of each programmable sounder.

Logic flow

An input device that the Fire event has been assigned to alerts the control panel to its activation.

- Disable the devices of a zone, except sounders: "3-1 Disable Zones".
- Disable a single input device: "6-1-2 Device Disable".

The control panel activates the common group, the group that the input device belongs to, the groups assigned to the zone that the input device belongs to.

In Default mode, all sounders are activated.

In Programmed mode, the sounders activate based on the active sounder groups.

All I/O outputs associated with the active I/O groups are activated

If a number of groups or zones require a sounder to activate and request that it use different sounds, the continuous sound will take precedence over the intermittent one.

7 LEVEL 2 MENU

The menus are numbered and are arranged in a tree structure.

This manual only describes the options that are accessible by default to a level 2 user.

"1 Review Historic Log"

▼ **"1-1 Display Historic Log"**
The system logs up to 10000 events.
Once there is no more space, each new event overwrites the oldest event.

"3 Zones - Disable & Assign"

▼ **"3-1 Disable Zones"**
Press △ and ▽ to select a zone.
Press ENTER to move the cursor.
Press △ and ▽ to select one of these options:
- ON - the zone's devices work normally.
- TIMED - the zone's devices are disabled during the "day" times
- OFF - the zone's devices are disabled.

These settings have no effect on the sounders.
Press ENTER to go to the next zone.

"6 Device Set-up"

▼ **"6-1 General"**
▼ **"6-1-2 Device Disable"**
Press △ and ▽ to select a control panel, ▷ to select a loop.
Press ENTER to move the cursor.
Press △ and ▽ to select a device, ▷ to select a loop.
Press ENTER to move the cursor.
Press △ and ▽ to select one of these options:
- ON - the loop's devices work normally.
- TIMED - the loop's devices are disabled during the "day" times
- OFF - the loop's devices are disabled.

These settings have no effect on the sounders.

Other menus

The installer has the power to grant the user access to other menus.

The installer must provide the instructions required to use them.

EU DECLARATION OF CONFORMITY

The product complies with current European EMC and LVD directives.
The full text of the EU declaration of conformity is available at the following internet address: www.elmospa.com – registration is quick and easy.

CE

GENERAL WARNINGS

This device has been designed, built and tested with the utmost care and attention, adopting test and inspection procedures in compliance with current legislation. Full compliance of the working specifications is only achieved in the event the device is used solely for its intended purpose, namely:

Control panels and signalling equipment

The device is not intended for any use other than the above and hence its correct functioning in such cases cannot be assured. Consequently, any use of the manual in your possession for any purpose other than those for which it was compiled - namely for the purpose of explaining the product's technical features and operating procedures - is strictly prohibited.

Production processes are closely monitored in order to prevent faults and malfunctions. However, the components adopted are subject to an extremely modest percentage of faults, which is nonetheless the case with any electronic or mechanical product.

Given the intended use of this item (protection of property and people), we invite you to adapt the level of protection offered by the system to suit the actual situation of risk (allowing for the possibility of impaired system operation due to faults or other problems), while reminding you that there are specific standards for the design and production of systems intended for this kind of application.

We hereby advise you (the system's operator) to see that the system receives regular routine maintenance, at least in accordance with the provisions of current legislation, and also check on as regular a basis as the risk involved requires that the system in question is operating properly, with particular reference to the control unit, sensors, sounders, dialler(s) and any other device connected. You must let the installer know how well the system seems to be operating, based on the results of periodic checks, without delay.

Work involved in the design, installation and maintenance of systems incorporating this product should be performed only by personnel with suitable skills and knowledge required to work safely so as to prevent any accidents. It is vital that systems be installed in accordance with current legislation. The internal parts of certain equipment are connected to the mains and therefore there is a risk of electrocution when maintenance work is performed inside without first disconnecting the primary and emergency power supplies. Certain products include batteries, rechargeable or otherwise, as an emergency backup power supply.

If connected incorrectly, they may cause damage to the product or property, and may endanger the operator (explosion and fire).

INSTALLER WARNINGS

Comply strictly with current standards governing the installation of electrical systems and security systems, and with the manufacturer's directions given in the manuals supplied with the products.

Provide the user with full information on using the system installed and on its limitations, pointing out that there are different levels of security performance that will need to suit the user's requirements within the constraints of the specific applicable standards. See that the user looks through the warnings given herein.

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If connected incorrectly, they may cause damage to the product or property, and may endanger the operator (explosion and fire).

USER WARNINGS

Check the system's operation thoroughly at regular intervals, making sure the equipment can be armed and disarmed properly.

Make sure the system receives proper routine maintenance, employing the services of specialist personnel who meet the requirements prescribed by current regulations.

Ask your installer to check that the system suits changing operating conditions (e.g. changes in the extent of the areas to be protected, change in access methods, etc...)

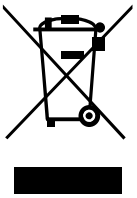
MAIN SAFETY RULES

The use of the device is forbidden for children and unassisted disabled individuals.

Do not touch the device when bare footed, or with wet body parts. Do not directly spray or throw water on the device.

Do not pull, remove or twist the electric cables protruding from the device even if the same is disconnected from the power source.

DISPOSAL WARNINGS



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In accordance with Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), please be advised that the EEE was placed on the market after 13 August 2005 and must be disposed of separately from normal household waste.

This product needs batteries for correct functioning. Exhausted batteries have to be delivered to dumping grounds authorized for battery collection. The materials used for this product are very harmful and polluting if dispersed in the environment.

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