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SmartLoop
Analogue fire alarm control panel
User's manual



GameOver

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European directive compliance

This control panel has been designed and developed to the highest standards of quality and performance implemented by INIM Electronics s.r.l.

This control panel must be installed in accordance with the instructions described in this manual and in compliance with the laws in force.

All control panels from the SmartLoop series are **EN54-2** and **EN54-4** compliant.

All control panels from the SmartLoop series, and all accessory items and special functions have IMQ-Security systems certification, unless otherwise stated.

Declarations of performance, declarations of compliance and certificates relating to the products mentioned in this manual can be downloaded from the following website:

www.inim.biz/certifications

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Description of the Control panel

1.1 Manufacturer's name and address

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1.2 Device identification details

- Denomination: Fire alarm control panel
- Model: SmartLoop

1.3 Documentation supplied

- User's Manual (this manual)
- Installation Manual
- Programming Manual

1.4 Manual details

- Title: SmartLoop user's manual
- Version: 3.50
- Code: DCMUINEOSLOOP

1.5 Control panel user interface

The SmartLoop control panel manages up to 15 consoles, the main console is located on the control panel frontplate ("G" and "P" models only), and up to 14 optional consoles (SmartLetUSee/LCD repeaters connectable to RS485 BUS).



Figure 1 - Control panel frontplate

1.5.1 Commands

Note: For further details refer to the programming manual, Chapter 3 - The SmartLoop control panel.

[1]	40 character x 4 line alphanumeric display. Indicates the system status, signals critical events (priority given to the most serious events), and allows you to navigate through of the main menu and screens.
[2]	▲ ▼ ◀ ▶ These keys allow you to navigate through menu screens and change the values in the programming fields.
[3]	Esc This key allows you to quit an operation and exit the screen without saving, or step back to higher-level menu options.
	↵ This key allows you to confirm an operation and exit a screen, or go to the options of a lower-level menu.
[4]	Alphanumeric keypad for data entries. Key 1 allows you to view the specifics of events which provide detailed information (" <i>info</i> "). If an event relating to a loop device is shown on the display, key 2 will allow you to access the bypass/unbypass loop device menu.
[5]	Keyswitch: allows level 2 users (Users, Authorized Users) to access the system. Can be used instead of code entry.
[6]	TEST This button (active at level 1: no key or code entry required) activates all the console LEDs in order to allow the operator to check functionality.
[7]	BUZZER This button (active at level 1) silences the panel beeper.

[8]	INVESTIGATE	If this button (active at level 2 only: this level requires key in keyswitch or code entry) is pressed during active pre-alarm conditions, the system will add the preset investigation time to the running pre-alarm time (this operation can be done once only).
[9]	SILENCE	This button (active at level 2 only) silences (switches Off) any active outputs with the silenceable attribute. The silenceable outputs will hold silenced status until a new event occurs that releases the outputs automatically. The SILENCE button operates as a toggle switch, therefore, silenced outputs can be unsilenced by pushing the button again.
[10]	RESET	This button (active at level 2 only) clears any active events, deletes the memory and restores standby conditions.
[11]	EVACUATE	If this button is pressed during active pre-alarm conditions (level 1), the system will generate an alarm. If this key is pressed during standby status when the key is in the keyswitch (level 2), the system will generate an instant alarm.

1.5.2 The LEDs

LED		ON Solid:	ON Blinking:
[A]	INVESTIGATE	Indicates that investigation time has been requested.	
[B]	SILENCE	Indicates that the system has been silenced.	
[C]	RESET	In the event of pre-alarm/alarm, indicates that reset commands are not allowed. Reset will be allowed when all outputs have been silenced and this LED goes Off.	
[D]	ALARM	Indicates an alarm condition, that is, an input point (detector, callpoint, input module, etc.) set to generate alarms has detected alarm conditions.	
[E]	PRE-ALARM	Indicates a pre-alarm condition, that is, an input point (detector, callpoint, input module, etc.) set with a pre-alarm time has activated.	
[F]	DISABLED	Indicates that one or more of the system components (loop point, zone or output) have been bypassed.	
[G]	TEST	Indicates that one or more components (points or zones) are undergoing tests.	
[H]	NIGHT MODE	Indicates that the panel is operating in night mode.	
[I]	ON	Indicates the control panel is working.	
[J]	FAULT	Indicates an active system fault condition. The display will provide the fault details.	Indicates memory of a cleared fault event. To view the restored fault condition details, consult the events log using the main menu (level 1).
[K]	LOGIC UNIT	Indicates trouble with the panel CPU; the panel must be sent back immediately to the manufacturer for repair.	Indicates that the CPU has re-initialized (due to control panel shutdown or fault condition). If this occurs, it will be necessary to check the functionality of the entire system.
[L]	BATTERY	Indicates that a battery fault has been detected, the display will provide the fault details (low battery, battery disconnected).	Indicates that the battery fault has been cleared. The event details can be viewed on the display via the main menu (level 1).

LED		ON Solid:	ON Blinking:
[M]	EARTH	Indicates voltage dispersion to earth.	Indicates that the dialler fault has been cleared. The event details can be viewed on the display via the main menu (level 1).
[N]	FUSE	Indicates a short-circuit on one or more system devices (e.g. detectors). Call your installer for immediate assistance.	Indicates that the dialler fault has been cleared. The event details can be viewed on the display via the main menu (level 1).
[O]	MAINS	Indicates electrical mains failure (primary power source failure).	Indicates that the mains failure has been cleared. The event details can be viewed on the display via the main menu (level 1).
[P]	BELLS - ACTIVE	Indicates that the bell output is active.	
[Q]	BELLS - FAULT	Indicates that an alarm-signaling device is not operating properly (e.g. bell out-of-order).	Indicates that the dialler fault has been cleared. The event details can be viewed on the display via the main menu (level 1).
[R]	BELLS - DISABLED	Indicates that one or more signaling outputs have been disabled.	
S	DIALLER - ACTIVE	Indicates that the SmartLoop/PSTN board is sending an Alarm or Fault related report call.	Indicates that the SmartLoop/PSTN board is sending a technical communication, monitoring communication, etc.
[T]	DIALLER - FAULT	Indicates a dialler fault.	Indicates that the dialler fault has been cleared. The event details can be viewed on the display via the main menu (level 1).
[U]	DIALLER - DISABLED	Indicates that one or more of the dialler functions have been bypassed.	
[V]	Programmable LEDs	The cause of activation of this LED can be defined during the programming phase.	

Chapter 2

Using the control panel

2.1 Note to Security Personnel

Persons responsible for the safety of the building and its occupants (security personnel, etc.) can: put the control panel in day/night; bypass zones, devices and NAC outputs; clear the call queue; disable alarm and fault report calls; request system event printouts (refer to the programming manual, *Chapter 10 - Maintenance operations*).

Attention: Insert and turn the key. The panel will enable access level 2. The panel will hold level 2 status until the keyswitch is turned Off (key in vertical position).

2.2 Danger signaling

In the event of fire hazard, always follow the fire department approved fire drill.

2.2.1 Note to building occupants

All building occupants may view the events log (refer to paragraph 2.5.2 - *View Events Log*) and the status of the detectors (refer to paragraph 2.8 - *View detector status*) and operate remote Repeater (refer to paragraph 2.7 - *Operating on the control panel network*).

ALARM LED On	Evacuate the building immediately.
PRE-ALARM LED On	In the event of real danger, press the EVACUATE button and ensure that all building occupants evacuate the building immediately. Inform the person/s in charge of the safety of the building and its occupants immediately. To silence the beeper, press BUZZER .

2.2.2 Note to Security Personnel

To force the panel into alarm status, regardless of its status, press **EVACUATE**.

ALARM/PRE-ALARM/RESET LEDs On	<p>At least one zone is alarm/pre-alarm status:</p> <ul style="list-style-type: none"> - If there is no intervention during a pre-alarm, the panel will generate an alarm when the pre-set pre-alarm time expires. - To request INVESTIGATION time, press INVESTIGATE and check the building. The INVESTIGATION time cannot be refreshed. - In the event of a false alarm, press SILENCE. The panel beeper and the silenceable outputs will be silenced until a new event occurs. If the panel is operating in Night mode, the panel beeper and the silenceable outputs will be unsilenced automatically after the pre-set time, and the panel will generate pre-alarm status. - If you wish to re-activate pre-alarm/alarm status after pressing the SILENCE button, press it again; pre-alarm/alarm signaling and the outputs will re-activate. - To clear all alarm/fault signaling (active and in memory), press RESET. If the conditions persist, the panel will generate another alarm.
SILENCE LED On	Indicates that the control panel has been silenced.
RESET LED On	The control panel is in alarm or pre-alarm status. To reset the control panel, you must press SILENCE before pressing RESET .

2.3 Fault signaling

2.3.1 Note to building occupants

FAULT LED On or blinking	Inform the person/s in charge of the safety of the building and its occupants immediately.
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2.3.2 Note to Security Personnel

You must always ensure that faults are dealt with and cleared as soon as possible. However, if you wish to stop the fault signaling, you can bypass the zone/point/output concerned.

FAULT LED On	Indicates that at least one system fault has been detected. View the fault details on the display and ensure that it is dealt with and cleared.
On LED Off	Primary and secondary power failure (no mains or battery power). The system is not working, ensure that power is restored as soon as possible.
CPU LED On	The control panel must be sent back to the manufacturer for repair.
BATTERY LED On	Indicates that the panel batteries are low or inefficient, and must be either charged or changed.
EARTH LED On	Indicates voltage dispersion to earth. You must find the part of the system concerned, and that cleared the fault as soon as possible.
FUSE LED On	Indicates short-circuit on one of the AUX or AUX-R terminals.
MAINS LED On	Indicates Mains failure.
BELLS-FAULT LED On	Indicates an alarm-signaling device connection fault (e.g. bell fault) has been detected.
DIALLER-FAULT LED On	Indicates a dialler fault or telephone line-down condition.

Blinking on any of the above mentioned LEDs indicates that the respective fault was detected and has since cleared. In this case, view the fault details on the display via the log in the main menu.

2.4 Informative signaling

Signaling that does not require specific action.

DISABLED LED On	A zone, point or output has been bypassed. View specifics on display.
TEST LED On	A zone or point is undergoing testing. View specifics on display.
NIGHT MODE LED On	Control panel in Night mode.

Attention: The panel may have been programmed to generate instant alarms. During Night mode, SILENCE will be held for the pre-set silence time only.

ON LED On	The control panel is working.
BELLS-ACTIVE LED On	The alarm signaling devices are "In Service" (i.e. monitoring the protected area).
BELLS-DISABLED LED On	Indicates that one or more alarm signaling devices have been bypassed.
DIALLER-ACTIVE LED On	Indicates that the dialler is sending a control-panel-generated call.
DIALLER-DISABLED LED On	Indicates that one or more of the dialler functions have been bypassed.

2.5 View Events

The events represent the various conditions signaled by the panel and have the following order of importance:

1. alarm
2. pre-alarm
3. supervision
4. early-warning
5. fault
6. monitor
7. test
8. disablement

The events that appear on the control panel and repeater displays may have been generated by other control panels in the network.

If several events of the same type occur (e.g. three faults), only the first event will be shown on the display. The system displays different real-time events in the order of importance (e.g. if the system is dealing with three fault events when a pre-alarm event occurs, the pre-alarm will take priority).

Control panel reset operations clear all the events from the display, however, all events are will be saved to the log and can be viewed on the control panel.

2.5.1 Active events

These are the events that occurred after the last control panel RESET operation.

```
Event 001of 003 01/01/07 14:34 PM Fri
PRE-ALARM      WAREHOUSE
NORTH EAST SECTOR CORRIDOR
Loop n. 4      Point 147      Panel 22 ↓
```

This is the first of three events.

Press keys ▲ and ▼ to view other active events.

Press **Esc** to view the **Events** menu:

```
→1 Main Menu
  2 View Log
  3 View Pre-alarms
  4 View Disablements
```

Press ← to select the menu option.

Menu options from **3** onwards show all the events related to the active event type.

2.5.2 View Events Log

From panel: <key>, View Log / Read Log, ←

or: <key>, 2 / 1

The events are recorded in chronological order. Once the log is full, old events will be overwritten by new ones. The navigation method is the same as that used for the active events.

2.6 Dialler calls

From panel: <key>, Dialler Settings, ←

or: <key>, 5

This command will allow you to clear the call queue, and enable/disable Alarm and Fault associated calls.

```
1 Clear telephone queue
2 Bypass Alarm phone calls
3 Bypass Fault phone calls
```

Select the required option.

2.7 Operating on the control panel network

From panel: <key>, Remote Console, ↵

or: <key>, 9

This command will allow you to access temporarily one of the control panels in the network from the console you are working on. During this operating mode, the screens on the display will allow you to monitor and command the remote control panel.

```
→001 Control panel 01
002 Control panel 02
003 NOT In Configuration
004 NOT In Configuration
```

Press ▲ and ▼ to view the control panels in the network.

Press ↵ in correspondence to the remote control panel you wish to connect to. The screen of the remote control panel will appear after a few seconds.

```
ALARM 001 of 003 FIRE ALARM
SMARTLoop nnn < Zone Description >
< Device Type > 01/01/11 17:44
Last Alarm Zone yyy Panel zzz
```

The icon  on the bottom right of the display confirms that you are communicating with the selected remote panel, and that any commands entered at the panel you are working on will be implemented on the remote panel you are communicating with.

Press **TEST** to go back to the local control panel.

Note: *If the local control panel goes into alarm status while you are working on the remote console, the remote connection will be interrupted and the screen of the local control panel will be reinstated.*

2.8 View detector status

From panel: <key>, Check Detectors state, x Loop x, yyy Device, ↵

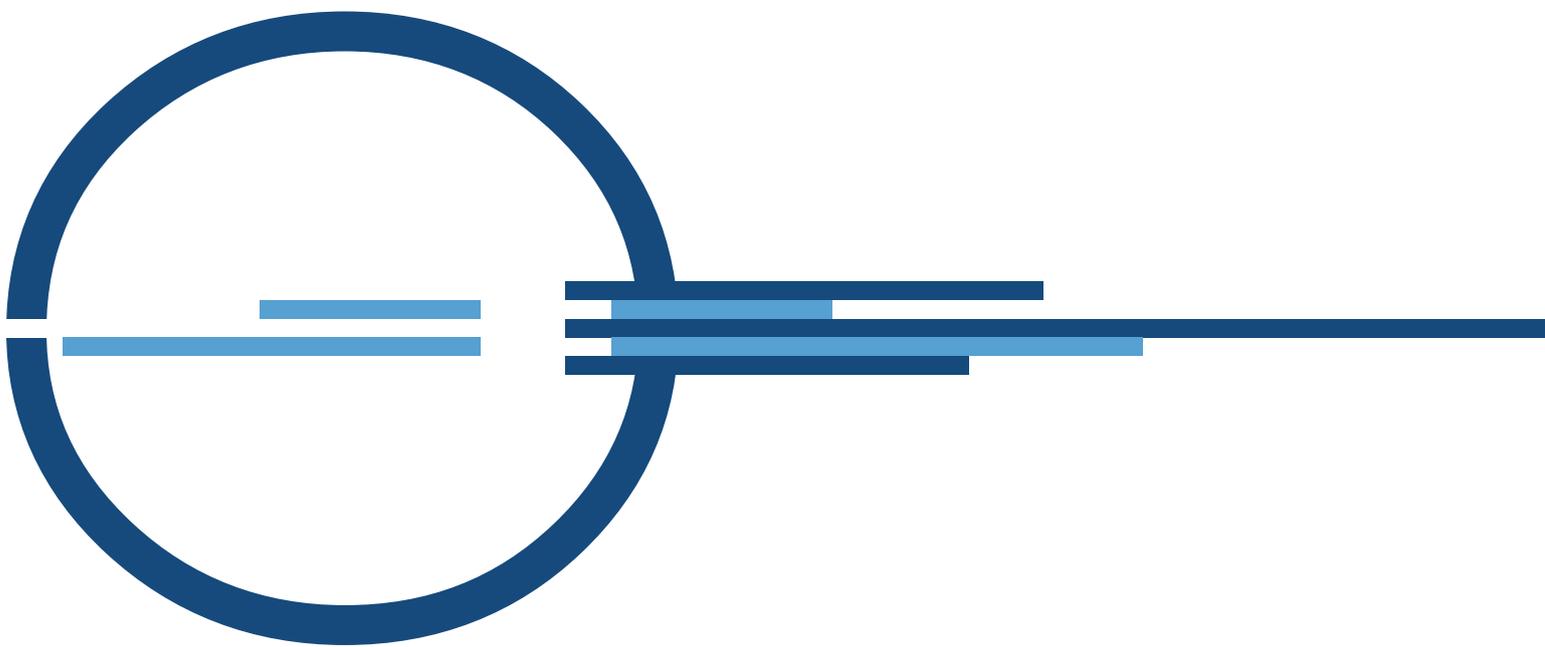
or: <key>, 2, x, yyy

This option will allow you to view the detector status and some parameter values.

Note: *You must wait several seconds for the control panel to retrieve the detector data. Refer to the detector instructions for details.*

```
Point x/yyy <Point Description>
< Device Type> Smoke : 0.004 dB/m
Sensitivity : 0.08dB/m
Contamination : 01%
```

Press keys ▲ and ▼ to view the previous and next detectors.



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