



«PROGRAMMING Manual»

“DETECTA-6 PROGRAMMING MANUAL”

Code 970361b, V11_06

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SYSTEM SPECIFICATIONS

SPECIFICATIONS

- 6 wired zones, with pre-assigned functions.
- Zones 1, 2 and 3 presence detection zones (NC).
- Zone 4: TAMPER zone (NC and 24 hours).
- Zone 5: Free zone (not configured, NA).
- Zone 6: Flood detection zone (NA).
- 2 Independent areas
- 8 connection / disconnection codes. One of them is the service code (Code 5).
- Fast connection function.
- Up to two entry / exit routes, with selection of 2 entry times and one exit time.
- 1 Main output by MOSFET.
- 1 PGM output by transistor.
- Real time clock.
- 4 relay outputs, with timer programmer.
- Dynamic battery test .
- Memory up to 125 events. Date and Time.
- Complete viewing of events
- Telephone line cutoff or fault detection.
- Events sent to Reception Centre with most standard Protocols. 2 telephones.
- Two-way Remote (via modem). Speed 1,200 bps. V23 / Bell 202. 1 telephone.
- Two-way Local. Speed 19,200 bps.
- Sending programmable voice messages to private telephones. 8 telephones.
- Telecontrol by means of DTMF commands.
- Listen / Talk in Hands-Free mode (optional, if microphone and amplifier are installed).
- Reproduction of zone and exit messages by Loudspeaker, special disconnection mode.
- Message recording from telephone/keypad.
- Programmable Audio settings.

STANDARD

STANDARDS

The equipment is designed and manufactured in compliance with all the health and safety requirements deriving from the following European directives:

89/336/ EEC	General directive on electromagnetic compatibility.
73/23 EEC	Directive on low tension.
93/68 EEC	Modification of directive 73/23/EEC.
EN 50 131	Intruder alarm system requisites.
EN 50 136-1	Alarm transmission systems.
EN 300 220	Low powered radio equipment without licence.
TBR21	Access to commuted telephone network.

This Declaration ceases to be valid as soon as any modifications are made to the product without our prior consent.

Equipment for use in residential, commercial and light industry environments.

Installation conditions

The company FERMAX ELECTRÓNICA, S.A.E., certifies its products under the following conditions.

- The system has been certified connecting the FERMAX Detecta 6 Centre to a grounded power source.
- The cable between the RS-232 pins of the circuit and communication with the Computer Interface must not exceed 1 metre in length.
- Compliance with the regulations has been certified with the use of screened cable in all the product inputs (zones, keypads, outputs...).
- The telephone section design follows the TBR21 recommendations for access to the public telephone network with commutation.
- This equipment complies with the Telefónica S.A. interface for commuted analogue networks.

Application of EN 50131-1

Regulation EN 50131 is the European standard regulating the correct operation of security systems against intrusion.

As the Centre provides level 2 security, the installation to be implemented must comply with level 1 or 2. Compliance with this standard also depends on the correct installation / programming of the system.

Minimum devices to be installed according to security level.

Depending on the security level desired, the minimum number of alert devices to be installed is outlined in the different options in the table.

Means of notification	Level 1		
	Option A	Option B	Option C
Alert device (siren) 2			
Stand-alone powered alert device	1		
Primary transmission system			1
Backup transmission system			

Means of notification	Level 2	
	Option A	Option B
Alert device (siren) 2		
Stand-alone powered alert device	1	
Primary transmission system	1	1
Backup transmission system	1	

- The acoustic alert devices will function for a minimum period of 90 seconds, except when local regulations indicate otherwise.
- The maximum activation period of an acoustic device is 15 minutes.
- Notification of power failure may be subject to a maximum delay of 1 hour (address 100).

Detection of manipulation

Detection of attempts to manipulate the system must be by means of installation of tamper sensors, to be wired into the system zones.

To be protected for each security level:

Components that must incorporate tamper detection	Level1	Level 2
Alarm centre	Obligatory	Obligatory
Auxiliary control equipment	Obligatory	Obligatory
Alarm transmission system	Obligatory	Obligatory
Alert devices	Obligatory	Obligatory
Power supply	Obligatory	Obligatory
Detectors	Optional	Obligatory
Connection boxes	Optional	Obligatory

- For **level 1**, box tamper shall be obligatory, whereas for **level 2** box tamper and wall tamper must be enabled. The system will generate fault events if manipulation is detected in disconnected status, while Tamper alerts will be generated if manipulation is detected while in connected status.

- Likewise, all the system's communication channels are checked, including the Vía Radio channel, the Bus (RS485 or TTL) the telephone line and GSM lines. The system will generate faults in disconnected status and must generate Tamper in connected status. To do so, activate the options of the corresponding PGM outputs at addresses [303] and [304] and wire these PGMs to instant zones.

Connection / disconnection periods

Maximum exit route time is 180 seconds, whereas maximum entry time will be 45 seconds.

If an alarm is triggered during the entry Route period, the system will function as follows:

- The exterior sirens will not be activated, but the interior ones will, programmable in transistor working mode.
- The alarm will be sent after a minimum delay of 30 seconds (program address [109]). If the zone is disconnected during this delay, the call to the ARC is cancelled.

Power Supply

The input must be connected to a commuted power supply with a grounded tension of 85..230VAC.

Battery maintenance should be carried out at least once every three years.

Input	85..230 VAC 47/63Hz - 500mA max
Output +12V	14 VDC \pm 0.3V - 1Amp max.
Residual Wave	30mV at 500mA
Security Level	Grade 2 with Tamper installation
Battery	Lead battery 12V 7Ah
Max. Battery Recharge Time	24 Hours
Battery Duration	72h, average consumption 100mA
Fuses	500mA input 220Vac. 3 Amp Battery input, auto-rearming Electronic 1Amp fuse for Outputs +12V

Telephone Communicator

Tone detection must be programmed in all the ARC, two-way and private telephones.

The total number of connection attempts with the ARCs available must be limited to 6. A maximum of 4 attempts for each available telephone.

Security level 1 requires a monthly telephone cadence test, while level 2 requires a daily test.

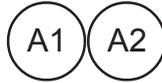
GENERAL OPERATION

CENTRE WITH AREA PARTIALISATION

The Centre may have two Areas (depending on the programming). Initially, only Area 1 is programmed.

The user codes may have more than one area assigned. Each code can only control the Area or Areas assigned to it.

The working mode of the areas is totally INDEPENDENT of each other, which means that connection/disconnection of one of them will not alter the status of the other.



The zones (1 to 6) between the two areas may be shared, in such a way that these zones are connected whenever all the areas they are assigned to are connected. In this case:

- The entry/exit routes will be independent between the two areas.
- Each route may be assigned two entry times and one exit time.
- The two areas may share the same entry/exit route if the entry/exit zones are shared in the two areas. In this way :
 - The exit route is designated when the two areas are connected;
 - The entry route will be activated if it is detected that an entry/exit zone and both areas are connected.
 - Likewise, the monitoring zones will be activated in the areas designated entry/exit route.

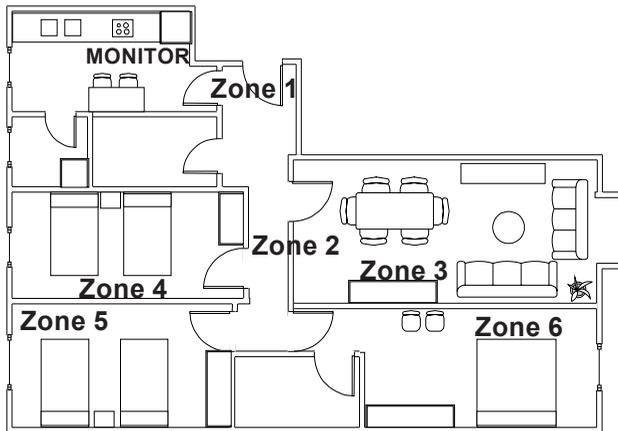
The areas of the system that may correspond with security areas or automatic devices may be connected/disconnected individually by means of the Master User function.

For example, several zones are defined, corresponding to **Area 1** or **Area 2** (or both). The zones (1 to 6) between the two areas may be shared, in such a way that these will be connected when all the areas that are assigned to them are connected:

- **Zone 1:** Entry zone with delay. Presence Sensor (PIR).
- **Zone 2:** Main distributor zone. Presence Sensor (PIR).
- **Zone 3:** Dining room zone. Presence Sensor (PIR).
- **Zone 4:** Guest room zone. Presence Sensor (PIR).
- **Zone 5:** Children's room zone. Presence Sensor (PIR).
- **Zone 6:** Main room zone. Presence Sensor (PIR).

Area 1 [- **Zone 1:** Entry zone with delay.
- **Zone 2:** Main distributor zone.
- **Zone 3:** Dining room zone.

Area 2 [- **Zone 1:** Entry zone with delay.
- **Zone 4:** Guest room zone.
- **Zone 5:** Children's room zone.
- **Zone 6:** Main room zone.



SYSTEM CONNECTION

Connection (arming) of the Centre may be by:

- User codes.
- The «fast connection» function.
- Key insertion.

When the system is connected:

- The keypad display indicates the action taken "Connection".
- The "Centre Status" LED will blink.
- The buzzer will sound, indicating that exit time has begun.

During this time, the detections of the entry and exit zones will not activate the alarm, although it will be triggered if detection occurs in the rest of the zones.

Once the exit time is up, detection in any zone will set off the alarm.

When the system is totally connected, the "Centre Status" LED will remain lit.

SYSTEM DISCONNECTION

Disconnection (disarming) the Centre is by:

- User codes.
- Key insertion.

When entering the installation:

- The Entry/Exit zone will detect.
- The "Centre Status" keypad LED will blink.
- The buzzer will sound, indicating that Entry time has begun.

Once the time is up, if the system has not been disconnected, the alarm will go off.

During entry time, detection is only permitted in the entry/exit and monitoring zones. Detection of any other type of zone will set off the alarm.

When the Centre is disconnected:

- The keypad will indicate the action taken - "Disconnection".
- The "Centre Status" LED will go off.
- The keypad emits a characteristic disarming tone.

Disconnection by keypad allows a maximum of 4 wrong entries, being cancelled for 30 seconds, programmable when an incorrect code is entered for a fifth time.

When disconnected, the omitted zones are restored.

Connection with Priority Zones

When you try to connect the centre, it is not permitted, and the keypad shows the message «Unable to connect due to detection in a priority zone», the centre indicates that there is a priority zone that is detecting and so will not allow connection of the centre until it is restored (stops detecting).

These zones may be omitted with the keypad (user functions) if this is enabled during programming..

Priority zones are defined by programming at Address 603.

Night Omission and Restoration of Zones

+ + +

Lets you manually select which zones will not be connected (omitted) when Night or Partial Connection takes place.

Introduce a valid user code, then press the [A] key (2 sec.) followed by the number/s of the zone/s to be omitted, then validate with the hash [#] key. Enter one digit for each zone.

Once this operation is performed, the keypad shows the zones that have been omitted. This function is always code protected.

Auto-omission of Zones

If the Omission LED lights up when the centre is connected, it means that there is a zone/s omitted owing to detection taking place at the moment of connection.

This is because the zone/s have been programmed with the Auto-omission feature (at address 605).

This zone will not activate the alarm until it has been restored and is detecting again.

Coercion Code (Robbery or Intimidation)

+

When the code is keyed in, the Centre disconnects and the telephone communicator sends a report of the incident to the Alarm Reception Centre. The keypad shows nothing.

If the user is forced to disconnect the centre against their will and wishes to communicate the situation, they must key in the Coercion Code.

The coercion code is the user code plus 1 added to the final digit of the code (User Code + 1).

Examples:

- User codes:	1996	1959	2000
- Coercion codes:	1997	1950	2001

SYSTEM CONNECTION/DISCONNECTION CODES

Connection or disconnection of the alarm centre is always carried out by a user (through their user code).

There are several ways to connect/disconnect the alarm centre:

Change current status of centre:

The centre status changes every time the connection-disconnection code is entered.

User code + #

(By default: 1111)

disconnected → connected
1111#

connected → disconnected
1111#

This function connects/disconnects the Areas assigned to the user making the connection/disconnection.

Fast Connection:

Connects the centre with no need to key in a code.

* #

At the same time for 2 sec.

This function connects/disconnects «user code 8», connecting/disconnecting the areas that have been assigned to it.

Absolute Connection/Disconnection:

If there are several areas, absolute user arming/disarming is used to ensure the desired connection/disconnection function.

Absolute Connection:

Connects the centre regardless of the current status (connected or disconnected).

User code + A + #

Absolute Disconnection:

Disconnects the centre regardless of the current status (connected or disconnected).

User code + B + #

Night Connection /Partial Connection:

Connects the centre partially.

Connects all the alarm Zones except those previously configured as "Night/Partial Omission."

User code + A_{2s} + #

2s : Press keyfor 2 seconds

When the operation is complete, the keypad shows the zones that have been omitted and the centre connects.

1 ● 2 ● 3 ○ Zones 1 and 2 omitted
4 ○ 5 ○ 6 ○

When connection/disconnection of the centre takes place, the display shows the operation carried out, followed by the user n°:



Centre CONNECTED by USER 1



Central DISCONNECTED by USER 2

SYSTEM ALARM

The System will trigger the alarm.

1. If, with the Centre connected, an instantaneous zone is detected (detection within the area connected).
2. If, when the Centre is in Entry/Exit Route, it detects a zone that is not Entry/Exit.
3. If the centre is not disconnected when the entry time is up.
4. If a 24 Hour/Tamper zone is detected, whatever the centre status (connected/desconnected).

When an alarm goes off in the Centre:

- The exit/s are activated.
- The keypad buzzer sounds.
- The keypad shows the zone where the alarm has been triggered.

All of this remains active during the programmed alarm time (see exit programming, (Dir [212])).

When the alarm has stopped, the Alarm Memory LED comes on and the following may occur:

1. The zone where the alarm was triggered no longer detects, said zone is restored and if it detects anything, the alarm goes off again.
2. If the zone where the alarm was triggered is still detecting, it will be omitted (depending on the programming) and will not set off the alarm again until it is restored.
3. If the zone where the alarm was triggered is still detecting and has the Auto-rearming feature programmed, it will not activate the alarm again until the Anti-Larsen time is up.

If a user disconnects the centre during an alarm, the exit/s, buzzer sound and keypad alarm indicator will be deactivated.

If a fire zone is activated when an alarm is triggered, that zone will take priority over the other zones.

Tamper / 24 Hour Zones (Add [610])

The Tamper / 24 hour Zones are those under constant surveillance, where any detection triggers an alarm independently of the status of the Centre.

With the centre connected, if a 24 hour/ tamper zone is disconnected during the alarm, the alarm will stop and the 24 hour zone where the alarm went off will be omitted.

Tamper Zones / Fault in Zone

Tamper / fault detection in a zone will be indicated by means of the keypad: the alarm memory LED  will keep blinking until the fault disappears.

In addition to the LED, the centre can send a report to the alarm reception centre by telephone.

Robbery Alarm (Add [612])

If a zone programmed for robbery detects anything, the centre activates the output it has been assigned and the telephone communicator sends the report of the incident.

The keypad shows nothing and the keypad buzzer does not sound.

Fire Alarm [Add 613])

If a zone programmed for fire (Add [613]) detects anything, the fire prealarm time is activated. In this case:

- If the zone stops detecting during the set prealarm time, it will return to the initial conditions.
- When the time is up, if the zone is still detecting, the alarm will go off.
- If the reset function is implemented during the set prealarm time [Key 9 _{2sec}], the prealarm stops and the zone that is detecting is omitted.

If the option of supplying fire sensors with PGM is enabled [Add 303]), it will be activated after 4 minutes to cut off the power supply to the fire sensors so that they can be restored.

The Fire Alarm will be deactivated:

- once the programmed fire exit time is up.
- when an area containing the fire zone is disconnected, the zone being omitted automatically if it had been detecting.

The fire alarm may also be activated if the [B] + [C] keys are pressed simultaneously for 2 seconds, and the alert is sent to the ARC.

Activation is direct when this function is implemented, there is no fire prealarm time.

When this activation takes place, any fire zone that is detecting will trigger an alarm in the system.

TELEPHONE COMMUNICATOR

The Centre has a built-in telephone communicator, which can communicate any incidents to:

- A Alarm Reception Centre.
- Private telephones.

Reception Centre

When an incident occurs in the centre, if the event has a telephone report assigned, the centre calls up the reception centre, indicating the event that has occurred.

The Alarm Centre can also periodically send a Test report to the reception centre, for supervision of the telephone line connection with the centre. The time is programmable and may vary between 1 and 255 hours.

Private Telephones

The voice communicator is able to send the following messages to private telephones:

- Entry zone alarms.
- Entry zone faults. Indicated by sending the Error message + zone message.
- System Arming/Disarming messages (using the Connected / Disconnected message) and communicates the status of the system areas.
- Battery Failure and Restoration:
 - To indicate the fault, sends the Error message + Battery message.
 - To indicate restoration, sends the Connected message + Battery message.
- Electrical Network Failure and Restoration.
 - To indicate the fault, sends the Error message + Network message.
 - To indicate restoration, sends the Connected message + Network message.

In the event that the equipment had to send all the messages, the sequence would be as follows:

<Header Message> <Network Status Message> <Battery Status Message> <2 Area Status Message> <Zone Alarm Message> <Zone Fault Message>.

Once a repetition cycle of messages is complete, the equipment pauses for 4 seconds, so that the call can be confirmed, by keying in [*+9] on your telephone.

Voice messages may be recorded from the keypad / telephone or from the Detecta-Express software.

Important:

If you have an answer phone service, it is important that the answering machine that receives the messages is configured for a high number of rings. In any case, the number of repetitions of the message must be high, as some 20 seconds may elapse from when the machine answers until the message is recorded.

If the centre is disconnected, disconnecting the zone(s) that provoked the call means that the call to private telephones underway will be cancelled.

LOUDSPEAKER VOICE MESSAGES (SPECIAL MODE OPERATION)

Disconnection in special mode

Operating in special mode activates the reproduction of voice messages via the loudspeaker (connected to the centre) for the following situations / events:

- Reproduction of voice message from the zones that detect something when in disconnection or trigger an alarm in connection.
- Reproduction of faults in the zones, by composition of error message + zone message.
- Reproduction of voice message from the zones by means of the keypad "Zones in Detection", "Zones Omitted" and "Transit Route" functions.
- When disconnecting the system, reproduction of the zones that have triggered alarms in the latest connection.
- Reproduction of AC / Battery fault, by composing the corresponding Fault message + Power Supply message.
- Reproduction of AC / Battery restoration by composing the corresponding Connected message + Power Supply message .
- Reproduction of "Connected" message when connecting the centre and "Disconnected" when disconnecting the centre.

To enable the Special Disconnection Function, press the: **[6]** key for 2 seconds.

The keypad shows an "E" plus the zones that are loudspeaker enabled, if the function has been activated and an "F" if it is deactivated.

Enable Zones for Loudspeaker

This function enables loudspeaker reproduction of the recorded zone messages, every time they detect something.

To enable / disable a zone, introduce the zone number, then press the **[C]** function key for 2 seconds:

[Zone N°] + C _{2 sec}

When this operation is complete, the keypad display shows the status of the zone:



Zone Enabled



Zone Disabled

Voicemail

This is the message that will be reproduced when an entry / exit route zone is detected, when the Centre is disconnected.

The message will be reproduced whether the special disconnection function is enabled or disabled.

The function of this message is to be able to leave messages or warnings, greetings...,

Recording Voicemail Messages:

To record your message, simply press the **[0]** key for 2 seconds.

The keypad beeps and an **[r]** appears on the display. Now release the key and record your message. Maximum message time is 5 seconds.

Once the message is recorded, the voicemail message is automatically enabled.

Activate / Deactivate Voicemail:

Once you have heard the message, it can be deactivated by pressing the keys:

[0] + [C]_{2s}

(First press the 0 key, then the [C] key, keeping it pressed for 2 seconds).

When this function is used, the display shows On/Off if the message is Enabled or Disabled:



Voicemail Enabled



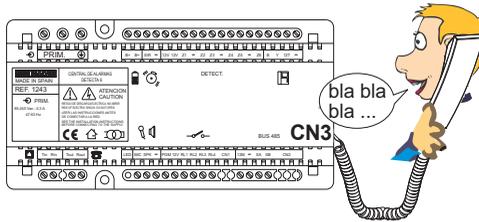
Voicemail Disabled

Zone Check

When in special disconnection mode, if the zones detect anything, the message recorded in them will be reproduced.

RECORDING MESSAGES

Recording / checking messages is done from installer programming mode, by means of a microphone or telephone handset connected to the Centre, remotely from a phone using the telecontroller functions, or from the Detecta Express software.



Recording messages by microphone or phone handset.

To enter the recording section:

1. Enter installer programming: key in the default code «0011».
2. Press the **[C]** key for 2 seconds.

The middle segment of the display lights up , waiting for the introduction of the number corresponding to the message to be recorded:

3. Introduce the number of the message to be recorded (see «Voice Messages» table). 

Proceed as follows to start recording:

4. Press the **[C]** key (simple press).
The display shows an [r] indicating that recording has begun.
5. Say the message you wish to record into the microphone (20cm).
6. After dictating the message, press the **[C]** key to finish recording.



Note:

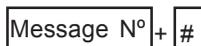
During recording of the message, the zone LEDs indicate the audio level detected in the microphone (dynamically, while you are speaking).

For optimum audio quality, try to get a medium level (between 3 and 4), as if it is any lower, messages may sound very weak, whereas if maximum level is used (level 6) it may cause distortion.

After recording, the keypad once again shows the middle segment and stands by for a new message number to be introduced.

Checking Messages:

To check the message recorded, when in installer programming mode, enter the message number to be checked, then press the [#] key.



The selected message is reproduced through the loudspeaker.

Remote recording from a telephone.

See «Telecontroller» section in this manual

Recording from Detecta Express software

For this function, you need a set of equipment with sound card and microphone.

To record messages from Detecta-Express, proceed as follows:

- Open the Windows sound recorder.
- Select file / properties/
- Select "Recording formats" and press "Convert now"
- In the new window, select: format: "PCM" and Attributes : "8KHz, 8 bit, mono".
- Accept the new configuration.
- Record as many files and Centre messages as you want and save them in a safe place.
- In the Detecta Express Monitor, select "flash messages".
- Assign each message the corresponding file.
- Transmit the message to the Centre.

We recommend you carry out this process only in local communication, or else remotely, by CSD-GSM channel.

Voice Message Table

N°	Message	Time	Message is reproduced when:
00	Header Message	8 sec.	Any voice call is made ⁽¹⁾
01	Zone Message 1	4 sec.	Alarm in Zone 1
02	Zone Message 2	4 sec.	Alarm in Zone 2
03	Zone Message 3	4 sec.	Alarm in Zone 3
04	Zone Message 4	4 sec.	Alarm in Zone 4
05	Zone Message 5	4 sec.	Alarm in Zone 5
06	Zone Message 6	4 sec.	Alarm in Zone 6
09	Connected Message	2 sec.	Alarm or device is connected
10	Disconnected Message	2 sec.	Alarm or device is disconnected
11	Device Message 1 (Output OUT1)	3 sec.	Device 1 information
12	Device Message 2 (Output OUT2)	3 sec.	Device 2 information
13	Device Message 3 (PGM1)	3 sec.	Device 3 information
15	Device Message 5 (Relay Output1)	3 sec.	Device 5 information
16	Device Message 6 (Relay Output 2)	3 sec.	Device 6 information
17	Device Message 7 (Relay Output 3)	3 sec.	Device 7 information
18	Device Message 8 (Relay Output 4)	3 sec.	Device 8 information
19	Voicemail Message	8 sec.	In entry / exit route with centre disconnected
20	Power Network Message	3 sec	Power network fault
21	Battery Message	3 sec	Low battery
22	Error / Fault Message	3 sec	Error or Fault in system

⁽¹⁾

The header message must have been enabled previously by the installer.

TELECONTROLLER

Telecontrol is the system whereby we can control certain Centre functions by telephone (landline or mobile).

For telephone management of the Centre, you will need:

1. Enter telecontrol mode

There are two ways to enter telecontrol:

- When an alarm goes off: The centre calls up the user.
- Telecontrol call: The user calls the centre.

2. Introduce telecontrol commands

Once in telecontrol mode, enter the appropriate commands to perform the desired operation on the centre.

1. Enter Telecontrol Mode

- Centre calls the User

After a telephone communication, there are two ways that the centre can go into telecontrol mode:

- **Automatically** (programmed previously in the centre, please consult your installer).
The centre, after reproducing all of the messages, goes into telecontrol automatically.

- **Manually, by introducing a command from the telephone.**

Following reproduction of the messages, press the keys (one after the other):

+

After reproduction of the messages, the centre remains on standby for 15 seconds to receive the command to enter programming. If after this time the centre does not receive a command, communication between the centre and the telephone is cut off.

- User calls the Centre:

When the user calls the centre and it **answers**, you have 15 seconds to introduce the user code, followed by [#]:

+

If the code entered is correct, the centre reproduces the «Connected or Disconnected» message, indicating the current status of the centre before going into telecontroller mode.

The centre may answer in two different ways (depending on the security required):

- **Normal:** The central answers after the number of rings programmed, just like an automatic answering machine.
- **Special:** The centre answers when the user performs the following sequence:
 1. The user calls the centre.
 2. Then hangs up after the first ring.
 3. User waits 8 seconds and calls the centre again.
 4. The centre answers automatically.

(Please consult your installer for the programmed response mode):

2. Telecontrol Commands

These commands are introduced by the user with the telephone once the telecontrol mode is activated, enabling certain operations on the centre.

<p>Connect / Disconnect the Centre</p>	<p>User code + #</p>	<p>If the code introduced is correct, the centre will reproduce the «Connected or Disconnected» message, indicating the current status of the centre after connection/disconnection.</p>
<p>Cut Communication</p>	<p>* + 0 + 0</p>	<p>Ends communication and orders the centre to hang up.</p>
<p>Activate/Deactivate devices (Master User only)</p> <ul style="list-style-type: none"> *1: Device 1 (OUT1) *2: Device 2 (OUT2) *3: Device 3 (PGM) *01: Device 5 (Relay1) *02: Device 6 (Relay2) *03: Device 7 (Relay3) *04: Device 8 (Relay4) 	<p>* + n n: device n°</p>	<p>The centre reproduces the message corresponding to «device» + output status «Connected or Disconnected».</p> <p>After reproduction, if you want to change the status, press [#]. If you do not wish to change it, wait for 5 seconds.</p> <p>If the status is changed, the output message and current status message will be reproduced again.</p>
<p>Extend Telecontrol Time</p>	<p>* + 5</p>	<p>Lets you extend the telecontrol time before the centre hangs up.</p> <p>The centre beeps twice to acknowledge the command.</p>
<p>Enable / Disable Listen / Talk mode</p> <p>When telecontrol is initiated, a hands-free conversation is set up automatically with the people in the home (if there is a loudspeaker and microphone installed).</p>	<p>* + 6</p>	<p>To disable/enable this option, press [*] followed by [6] (the centre acknowledges the command with 2 beeps).</p> <p>With the option disabled, it is possible to have a conversation in Half-duplex mode, like with a Walkie-talkie (talk or speak). To switch between talk and speak, press the [#] key alternately.</p>
<p>Reproduce Centre status messages</p>	<p>* + 7</p>	<p>All the messages reproduced are those recorded for each purpose (zones, outputs, connection, disconnection).</p>
<p>Reproduce zone detection messages</p>	<p>* + 8</p>	<p>Indicates that the zones are detecting at the moment of telecontrol if the alarm is disconnected.</p>
<p>Confirm Alarm Call</p>	<p>* + 9</p>	<p>Lets you confirm that the alarm call has been received and give the order to the centre not to keep calling.</p>

<p>Reproduce voice messages (see Message Table)</p>	<p style="text-align: center;"> n + # n: message n° </p>	<p>Reproduce the recorded voice message.</p>
<p>Record voice messages (see Message Table)</p>	<p style="text-align: center;"> n + * n: message n° </p>	<p>After keying in the recording code, 2 consecutive beeps are heard, indicating start of recording. At this point you can record the message. The end of recording the message is signalled by 2 beeps again.</p>

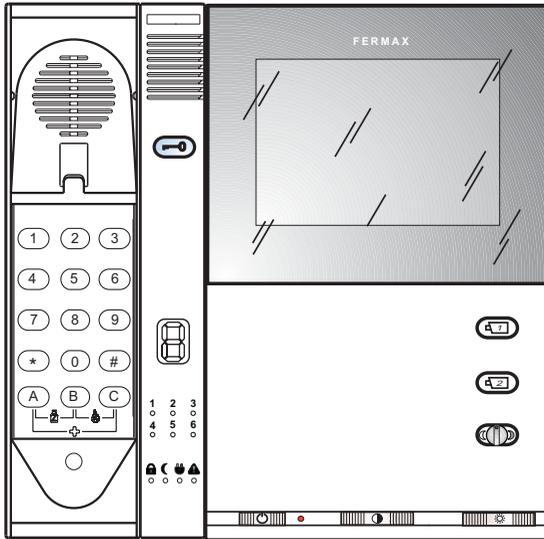
Voice Message Table

N°	Message	Time	Message is reproduced when:
00	Header Message	8 sec.	Any voice call is made ⁽¹⁾
01	Zone Message 1	4 sec.	Alarm in Zone 1
02	Zone Message 2	4 sec.	Alarm in Zone 2
03	Zone Message 3	4 sec.	Alarm in Zone 3
04	Zone Message 4	4 sec.	Alarm in Zone 4
05	Zone Message 5	4 sec.	Alarm in Zone 5
06	Zone Message 6	4 sec.	Alarm in Zone 6
09	Connected Message	2 sec.	When an alarm or device is connected
10	Disconnected Message	2 sec.	When an alarm or device is disconnected
11	Device Message 1 (Output OUT1)	3 sec.	Device information 1
12	Device Message 2 (Output OUT2)	3 sec.	Device information 2
13	Device Message 3 (PGM1)	3 sec.	Device information 3
15	Device Message 5 (Relay Output1)	3 sec.	Device information 5
16	Device Message 6 (Relay Output2)	3 sec.	Device information 6
17	Device Message 7 (Relay Output3)	3 sec.	Device information 7
18	Device Message 8 (Relay Output4)	3 sec.	Device information 8
19	Voicemail Message	8 sec.	In entry/exit route with Centre disconnected
20	Power Network Message	3 sec	Power network fault
21	Battery Message	3 sec	Battery low
22	Error / Fault Message	3 sec	Error or Fault in system

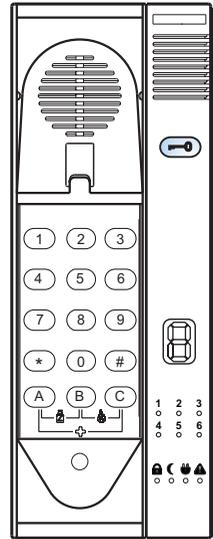
⁽¹⁾ The header message must have been previously enabled by the installer.

MONITOR DESCRIPTION

DETECTA 6 MONITOR-TELEPHONE DESCRIPTION



Detecta 6 Monitor
ADS, 4+N and MDS System



Detecta 6 Telephone
ADS System

Video entry system commands description

Monitor and Telephone:



DOOR RELEASE / Guard Unit call button.

- When in conversation with the Outdoor Panel, pressing this button activates the door release.
- With the telephone on the hook, press this button to call the guard unit (if there is one, depending on the installation).

Monitor:



Autoswitch-on (activates the monitor and outdoor panel)

Function available depending on installation.



Autoswitch-on Secondary Camera

Function available depending on installation.

In ADS installations with AUXILIARY TELECAMERA KIT or ADDITIONAL VIDEO PANEL (optional).



Colour setting (in colour monitor)



Stair light relay (in B/W monitor)

Function available depending on installation.



• ON/OFF switch - LED monitor on indicator



Contrast



Brightness

Keypad / Status LEDs



LEDS	Function	 (Off)	 (On)	 (Blinking)
 	Centre status	Disconnected	Connected	In Entry/Exit route
				Blink after 2 seconds, Centre partially connected
 	Omission LED	No zones omitted	Zone omitted	Clock not set
 	Power supply	Power supply correct	Network fault (230 Vac)	Battery low
 	Alarm memory	No alarm memory	Alarm memory present	Fault/tamper in zones

Alarm Buttons

Must be pressed for 2 seconds.



POLICE Alarm (A+B). Sends Police alert to Alarm Reception Centre (ARC) ⁽¹⁾.



FIRE SERVICE Alarm (B+C).

- Sends Fire Service alert to Alarm Reception Centre (ARC) ⁽¹⁾.
- Instantly activates output associated with fire.



MEDICAL Alarm (A+C). Sends Medical Assistance alert to Alarm Reception Centre (ARC) ⁽¹⁾

⁽¹⁾ If system is connected to ARC and enabled.

Keypad Buzzer

The keypad has a buzzer that gives off an acoustic alert of Centre status when activated, or when any operation is carried out.

The sounds indicated are:

- Entry route
- Exit route
- Day zone
- Entry/exit zone detection (chime)
- Intruder alarm
- Fire pre-alarm
- Fire alarm
- Keypad touch tone
- Wrong code

Some of the sounds may be cancelled by programming and others directly by means of keypad functions. See section on Fast Keypad Functions.

Keypad Display



The display shows the functions implemented, as well as a series of data when codes are entered or when in programming mode.



Shown when a wrong code is entered, or an incorrect function carried out.

Information on Centre in Standby (Disconnected) / Connected



On: CENTRE CONNECTED

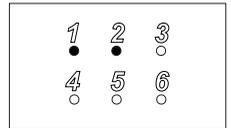


Off: CENTRE DISCONNECTED

• Zone Detection

When the Centre is disconnected, if anything is detected in any of the zones, the zone indicator LEDs show the zones where detection has taken place.

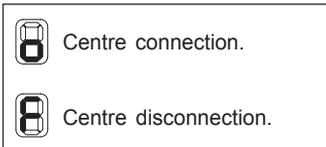
The corresponding LED will go on and stay lit until the zone is restored (stops detecting).



Example: Zones 1 and 2 detected

Connection / Disconnection Information

After executing the operation, the display may show:



and then shows the User N° responsible for the operation:



User 3 (Up to 8 Users may be authorised)

If you try to connect/disconnect and the operation is not permitted, the display will indicate the reason:



The Service code cannot disconnect as its function has expired.



The centre cannot connect due to detection in a priority zone.



Cannot connect/disconnect by code as it is key locked.



Lights up to indicate that the centre is blocked due to input of 4 wrong digits.



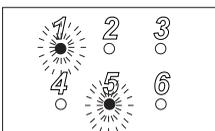
When the system disconnects, this is how the display shows that if any alarms have gone off during the last connection, the keypad LEDs will also show us the zones where the alarm was triggered.

Information on Centre when Alarm goes

off



The display blinks intermittently when an alarm goes off.



The zone LEDs are blinking, showing the zone/s where the alarm has been set off.

This status remains for as long as the alarm lasts.

Example: Zones 1 and 5 have set off the alarm.

Fast Key Functions

When a key is pressed for **2 seconds**, the function corresponding to the key pressed is implemented:

Key

- 0** **Voicemail**, the Voicemail is recorded.
- 1** **Zones in Detección**, the keypad shows the zones in detection. The display shows 'd' and the LEDs show the zones.
- 2** **Zones Omitted**, the keypad shows the zones that are omitted. The display shows 'o'.
- 4** **Output Test**, activates the outputs in the Centre for 2 seconds.
- 5** **Zone Chime**, activates/deactivates the acoustic alert of the Entry/Exit Zones.
- 6** **Loudspeaker Zones**, activates/deactivates the zone message loudspeaker reproduction function.
The display will show if the function is deactivated [F] or activated [o], and the zone LEDs activated.
- 7** **Reset Alarm Memory**. Switches off the «Alarm Memory». The events are not deleted.
- 8** **Touch Tone**, activates/deactivates the keypad touch tone.
- 9** **Reset**, press this key to deactivate:
- any keypad sound
- the transit route
- the Fire pre-alarm

A + **B** **Police**, sends a Police report to the Alarm Reception Centre. ⁽¹⁾

B + **C** **Medical**, sends the Alarm Reception Centre the Medical Assistance report. ⁽¹⁾

A + **C** **Fire Service**, sends the Alarm Reception Centre the Fire Service report. ⁽¹⁾

(1) If the system is connected to the ARC and enabled.

A + **2** **Transit Route**

C **Voice Zones**

PROGRAMMING

PROGRAMMING THE CENTRE

Enter Programming

- You cannot enter programming mode if the centre is connected or in alarm: 

To enter programming, press:



- When in programming, configure all the desired parameters, introducing the corresponding commands, as listed below.

Exit Programming

To leave programming once all the desired parameters are configured, press:

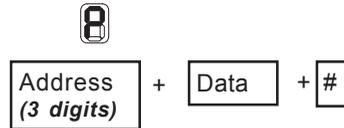


- You will also exit automatically if no keys have been pressed for 1 minute.

Programming Data at the Addresses

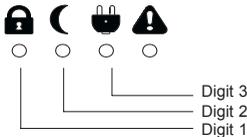
When in programming, proceed as follows to program the data at the addresses:

1. Introduce the address to be programmed.
2. Now enter the data.
3. Press the [#] key to validate.

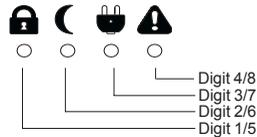


The "STATUS" LEDs show the position of the digit entered:

ADDRESS POSITION



DATA POSITION



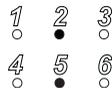
In those addresses where the data to be introduced are the selection of zones and options, the keypad will show both:

*Example: Zones NA (Address - 600). Zones programmed 2 and 5.
When the third digit of the address 6 0 0 is entered, the "Zone LEDs" will automatically show the zones/options that are programmed (Zones 2 and 5) and the Display shows the number of the last digit introduced.*

The third digit of the address is 0



Now the zones programmed are shown, in this case Zones 2 and 5



- The addresses are as listed in the Programming Tables (abbreviation: Add).
- The data to be entered may be one single digit or several, and must be entered one by one.
- In those programming sections where an «0» is shown in the first box, the «0» must be introduced before the datum or data.

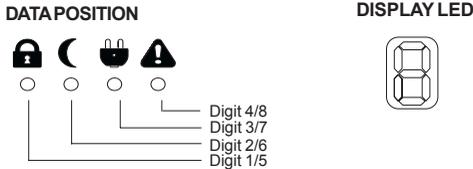
Viewing Programmed Data

When in programming , proceed as follows to view data:

1. Introduce the address to be viewed.
2. Validate by pressing the [#] key.

Address + #

Automatically, the data recorded at this address are seen. The display shows the numbers and the “STATUS” LEDs give the position of the number on view.



After viewing, the keypad remains on standby for a possible modification of data and the display shows:



- If you wish to keep the data, press 
- If you want to modify the data, introduce the new data and press 

Cancel Data Entry

If you want to cancel the data or the address introduced while you are programming, press 

Programming RESET

To reset the centre and return all the values to factory settings:

1. Enter the address [9FF]. *Introduce F by pressing: [*] + [5]*
2. The centre will reset the data and go back to factory parameters.
3. And exit programming.

Recovering Installer Code and User 1 Code (MASTER)

To recover the MASTER User (by default 1111) and Installer (by default 0011) codes, proceed as follows:

1. Cut off power supply (mains or battery) completely.
2. Restore power (mains or battery) to the centre.
3. As soon as the centre powers up the keypad, press the [9] key for 2 seconds.
4. Stop pressing the key and the codes will be recovered.

Factory Programming

All the boxes with this symbol [✓], as well as the values indicated below the boxes, are factory programmed data. When “none” is indicated, the data entered are “F”.

USER CODE PROGRAMMING

Installer Code

000				
-----	--	--	--	--

0 0 1 1 (by default)

User Code 1

001				
-----	--	--	--	--

1 1 1 1 (by default)

User Code 2 ^(*)

002				
-----	--	--	--	--

User Code 3 ^(*)

003				
-----	--	--	--	--

User Code 4 ^(*)

004				
-----	--	--	--	--

User Code 5 ^(*)

005				
-----	--	--	--	--

Always Service Code.

User Code 6 ^(*)

006				
-----	--	--	--	--

User Code 7 ^(*)

007				
-----	--	--	--	--

Used for connection/disconnection with key.

User Code 8 ^(*)

008				
-----	--	--	--	--

Connects with the fast connection function.

- ^(*) The code is FFFF, which means that no code has been introduced.

User Connection

050	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

Codes that send connection report to the ARC ⁽¹⁾
1 2 3 4 5 6 7 8

User Disconnection

054	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

Codes that send disconnection report to the ARC ⁽¹⁾
1 2 3 4 5 6 7 8

- ⁽¹⁾ ARC = Alarms Reception Centre

AREA PROGRAMMING (ASSIGNATION OF AREAS TO CODES)

User Areas 1

	A1	A2
025	1	2

✓

User Areas 2

026	1	2
-----	---	---

✓

User Areas 3

027	1	2
-----	---	---

✓

User Areas 4

028	1	2
-----	---	---

✓

User Areas 5

029	1	2
-----	---	---

✓

User Areas 6

030	1	2
-----	---	---

✓

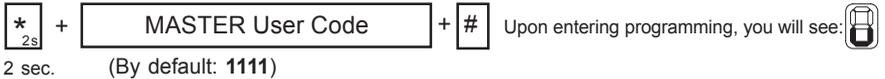


- ⁽¹⁾ The key function may be connected/disconnected with User code 7.
- A code may have the two areas associated.

DATE AND TIME PROGRAMMING

Must be programmed with the MASTER User Code.

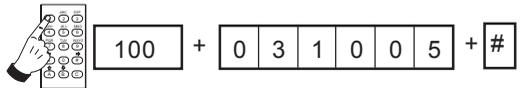
To enter USER programming, press:



Programming the Date:

When in programming, press 100 followed by the DATE, with 2 digits for the day, 2 digits for the month, and 2 digits for the year.

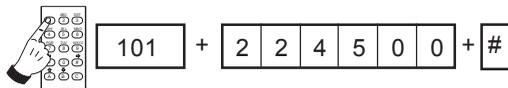
Example: 3rd October 2005



Programming the Time:

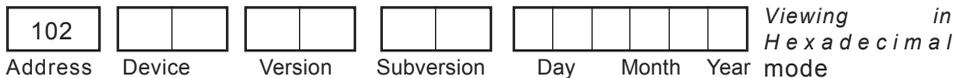
When in programming, press 101 and then TIME (24-hour format) with 2 digits for the hour, 2 digits for the minutes and 2 digits for the seconds.

Example: 22:45:00 PM



Centre Version:

This address is read only and shows the centre version (Version and Date).



ZONE PROGRAMMING

NA Zones	<table border="1"><tr><td>600</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	600	1	2	3	4	5	6	7	8	If neither of the two features is selected, the Zones will be NC.													
600	1	2	3	4	5	6	7	8																
With line end resistance	<table border="1"><tr><td>601</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	601	1	2	3	4	5	6	7	8														
601	1	2	3	4	5	6	7	8																
With Slow Sensitivity	<table border="1"><tr><td>602</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td></td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr></table>	602	1	2	3	4	5	6	7	8		✓	✓	✓	✓	✓	✓	✓	✓	Selected, zone sensitivity will be slow (400ms.). If not, it will be fast (50ms).				
602	1	2	3	4	5	6	7	8																
	✓	✓	✓	✓	✓	✓	✓	✓																
Priority Zones	<table border="1"><tr><td>603</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	603	1	2	3	4	5	6	7	8	Do not allow centre connection if they are detecting.													
603	1	2	3	4	5	6	7	8																
Auto-Rearming Zones	<table border="1"><tr><td>604</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td></td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr></table>	604	1	2	3	4	5	6	7	8		✓	✓	✓	✓	✓	✓	✓	✓	<table border="1"><tr><td>208</td><td></td><td></td><td></td></tr></table> Standby time between alarms Sec. 0 0 0	208			
604	1	2	3	4	5	6	7	8																
	✓	✓	✓	✓	✓	✓	✓	✓																
208																								
Auto-omissionZones	<table border="1"><tr><td>605</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	605	1	2	3	4	5	6	7	8	When the centre is connected, if a zone is detecting, said zone/s will be omitted.													
605	1	2	3	4	5	6	7	8																
Zone Omission by Keypad	<table border="1"><tr><td>606</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td></td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr></table>	606	1	2	3	4	5	6	7	8		✓	✓	✓	✓	✓	✓	✓	✓	May be omitted with the "Zone Omission" keypad function.				
606	1	2	3	4	5	6	7	8																
	✓	✓	✓	✓	✓	✓	✓	✓																
Zone Omission by 5 detections	<table border="1"><tr><td>607</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td></td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr></table>	607	1	2	3	4	5	6	7	8		✓	✓	✓	✓	✓	✓	✓	✓	When 5 detections (alarms) occur in the same connection, they will be omitted.				
607	1	2	3	4	5	6	7	8																
	✓	✓	✓	✓	✓	✓	✓	✓																
Night/Partial Omission	<table border="1"><tr><td>608</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	608	1	2	3	4	5	6	7	8	Omitted when the user performs this function and then connects the centre.													
608	1	2	3	4	5	6	7	8																
Reserved	<table border="1"><tr><td>609</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	609	1	2	3	4	5	6	7	8														
609	1	2	3	4	5	6	7	8																
Tamper/24 H Zones	<table border="1"><tr><td>610</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	610	1	2	3	4	5	6	7	8	Zones under constant surveillance. When detection occurs, the buzzer sounds and the output is activated.													
610	1	2	3	4	5	6	7	8																
Robbery Zones	<table border="1"><tr><td>611</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	611	1	2	3	4	5	6	7	8	Zones under constant surveillance. When detection occurs, the buzzer doe NOT sound and the output is activated.													
611	1	2	3	4	5	6	7	8																
Fire Zones	<table border="1"><tr><td>612</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	612	1	2	3	4	5	6	7	8	<table border="1"><tr><td>105</td><td></td><td></td><td></td></tr></table> Pre-alarm Time Waiting time before alarm. Sec. 0 0 0	105												
612	1	2	3	4	5	6	7	8																
105																								
Entry / Exit with entry time 1	<table border="1"><tr><td>613</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	613	1	2	3	4	5	6	7	8	<table border="1"><tr><td>101</td><td></td><td></td><td></td></tr></table> Entry Time 1 Sec. 0 3 0	101												
613	1	2	3	4	5	6	7	8																
101																								
Entry / Exit with entry time 2	<table border="1"><tr><td>614</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	614	1	2	3	4	5	6	7	8	<table border="1"><tr><td>102</td><td></td><td></td><td></td></tr></table> Entry Time 2 Sec. 0 0 0	102												
614	1	2	3	4	5	6	7	8																
102																								
Excluded Zones	<table border="1"><tr><td>616</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	616	1	2	3	4	5	6	7	8	Zones disabled by programming.													
616	1	2	3	4	5	6	7	8																
Monitoring Zones	<table border="1"><tr><td>619</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	619	1	2	3	4	5	6	7	8														
619	1	2	3	4	5	6	7	8																
Area 1 Zones	<table border="1"><tr><td>620</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td></td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr></table>	620	1	2	3	4	5	6	7	8		✓	✓	✓	✓	✓	✓	✓	✓					
620	1	2	3	4	5	6	7	8																
	✓	✓	✓	✓	✓	✓	✓	✓																
Area 2 Zones	<table border="1"><tr><td>621</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	621	1	2	3	4	5	6	7	8														
621	1	2	3	4	5	6	7	8																

PROGRAMMING OPTIONS

The boxes in black are reserved. They have no option assigned.

Centre Functions

301	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

- 1) Reserved.
- 2) Enables Fault / Tamper detection in the same zone link
- 3) Tamper detection triggers alarm in the zone.
- 4) Enables the [B+C] function. Activates the output assigned to the fire alarm.
- 5) Activates output "OUT 1" when connecting / disconnecting.
- 6) Key working Mode by Level (locking key)
- 7) Zone 1 as Key

Keypad Functions

302	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

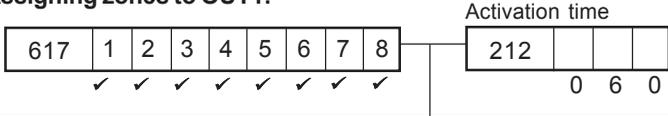
- 1) Reserved
- 2) Cancels keypad when 4 wrong codes are entered.
- 3) Cancels output test function from keypad.
- 4) Cancels coercion code function.
- 5) Cancels keypad tone during entry / exit route.
- 6) Cancels fast connection by means of keys [* + #].
- 7) Activtes the keypad ZIN, as centre zone 1.

PROGRAMMING OUTPUTS

The boxes in black are reserved. They have no option assigned.

Programming Outputs OUT1 and OUT2

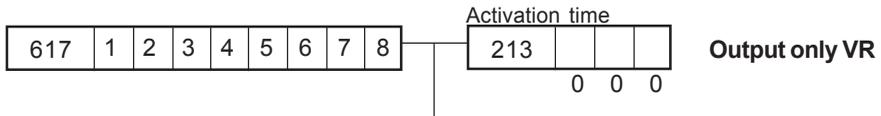
Assigning zones to OUT1:



OUT1 Working Mode	200	1	2	3	4	5	6	7	8
--------------------------	-----	---	---	---	---	---	---	---	---

- 1) Selected, in standby contact open, if not gives +12V
- 2) Selects pulse activation mode.
- 3) Selects timing in minutes, if not in seconds.
- 4) Reserved.
- 5) Considered external alert device in accordance with EN50131-1
- 6) Activates supervised VR output.
- 7) Plays the OUT1 message by loudspeaker when activated /deactivated.
- 8) Enables telephone or keypad control of output.

Assigning zones to OUT2 VR only (Via Radio) (not available):



OUT2 Working Mode VR only	200	1	2	3	4	5	6	7	8
----------------------------------	-----	---	---	---	---	---	---	---	---

- 1) Reserved, activate always.
- 2) Selects pulse activation mode.
- 3) Selects timing in minutes, if not in seconds.
- 4) Reserved.
- 5) Considered external alert device in accordance with EN50131-1.
- 6) Activates supervised VR output.
- 7) Plays the OUT2 message by loudspeaker when activated /deactivated.
- 8) Enables telephone or keypad control of output.

PGM Programming

PGM Activation (address 303)

303	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

- 1) Activates PGM if area 1 is connected. Enabled (cable only).
- 2) Activates PGM upon detection of fault or tamper in zone.
- 3) Activates PGM upon detection of robbery zones.
- 4) Activates PGM upon detection of day zones.
- 5) Activates PGM upon detection of fire zones.
- 6) Activates PGM by robbery code and/or function [A+B].
- 7) Powers fire sensors with PGM.
- 8) Activates PGM by sabotage in Via Radio channel.

PGM Activation (address 304)

304	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

- 1) Activates PGM during entry / exit route (cable only).
- 2) Activates PGM at telephone line cutoff or fault.
- 3) Activates PGM when unable to report events.
- 6) Activates PGM when message is reproduced by loudspeaker.

PGM Output:

As per programmed options

(See previous page)

Activation time

214
0 1 0

PGM Working Mode	202	1	2	3	4	5	6	7	8
------------------	-----	---	---	---	---	---	---	---	---

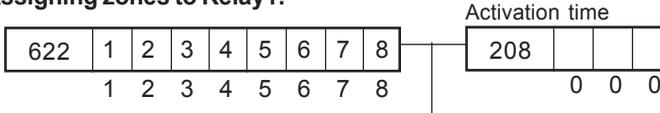
- 1) Selected, in standby gives air, if not, gives negative.
- 2) Selects pulse activation mode.
- 3) Selects timing in minutes, if not in seconds.
- 5) Considered external alert device in accordance with EN50131-1.
- 6) Activates supervised VR output.
- 7) Plays PGM message by loudspeaker when activated/deactivated.
- 8) Enables telephone or keypad control of output.

RELAYS

Relay Programming

The boxes in black are reserved. They have no option assigned.

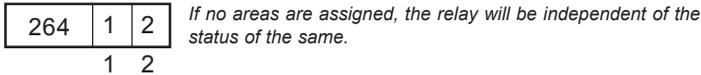
Assigning zones to Relay1:



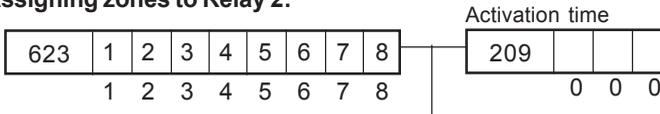
Relay1 Working Mode - Always activate option 1	204	1	2	3	4	5	6	7	8
---	-----	---	---	---	---	---	---	---	---

- 2) Selects pulse activation mode.
- 3) Selects timing in minutes, if not in seconds.
- 4) Program activation mode. Initial/final pulse or Bistable.
- 5) Reserved.
- 6) Activates supervised VR output.
- 7) Plays the Relay 1 message by loudspeaker when activated /deactivated.
- 8) Enables telephone or keypad control.

Assigning areas to Relay 1:



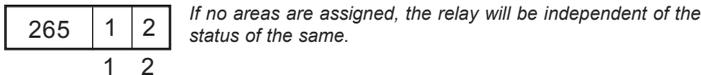
Assigning zones to Relay 2:



Relay 2 Working Mode - Always activate option 1	205	1	2	3	4	5	6	7	8
--	-----	---	---	---	---	---	---	---	---

- 2) Selects pulse activation mode.
- 3) Selects timing in minutes, if not in seconds.
- 4) Program activation mode. Initial/final pulse or Bistable.
- 5) Reserved.
- 6) Activates supervised VR output.
- 7) Plays the Relay 2 message by loudspeaker when activated /deactivated.
- 8) Enables telephone or keypad control.

Assigning areas to Relay 2:



Assigning zones to Relay 3:

624	1	2	3	4	5	6	7	8
	1	2	3	4	5	6	7	8

Activation time

210			
	0	0	0

Relay 3 Working Mode - Always activate option 1	206	1	2	3	4	5	6	7	8
--	-----	---	---	---	---	---	---	---	---

- 2) Selects pulse activation mode.
- 3) Selects timing in minutes, if not in seconds.
- 4) Program activation mode. Initial/final pulse or Bistable.
- 5) Reserved.
- 6) Activates supervised VR output.
- 7) Plays the Relay 3 message by loudspeaker when activated /deactivated.
- 8) Enables telephone or keypad control.

Assigning areas to Relay 3:

266	1	2
	1	2

If no areas are assigned, the relay will be independent of the status of the same.

Assigning zones to Relay 4:

625	1	2	3	4	5	6	7	8
	1	2	3	4	5	6	7	8

Activation time

211			
	0	0	0

Relay 3 Working Mode - Always activate option 1	207	1	2	3	4	5	6	7	8
--	-----	---	---	---	---	---	---	---	---

- 2) Selects pulse activation mode.
- 3) Selects timing in minutes, if not in seconds.
- 4) Program activation mode. Initial/final pulse or Bistable.
- 5) Reserved.
- 6) Activates supervised VR output.
- 7) Plays the Relay 1 message by loudspeaker when activated /deactivated.
- 8) Enables telephone or keypad control.

Assigning areas to Relay 4:

267	1	2
	1	2

If no areas are assigned, the relay will be independent of the status of the same.

Automatic Relay Programs

Allows 8 Relay Programs with 2 schedules in each one, connection/disconnection.

Prog.1 Interval 1 start time	216	h h m m	Act. time format hh:mm
Prog.1 Interval 1 end time	217	h h m m	Deact. time format hh:mm
Prog.1 Interval 1 calendar	218	1 2 3 4 5 6 7	Select: 1 = Monday 7 = Sunday
Prog.1 Interval 2 start time	219	h h m m	Act. time format hh:mm
Prog.1 Interval 2 end time	220	h h m m	Deact. time format hh:mm
Prog.1 Interval 2 calendar	221	1 2 3 4 5 6 7	Select: 1 = Monday 7 = Sunday

Prog.2 Interval 1 start time	222	h h m m	Act. time format hh:mm
Prog.2 Interval 1 end time	223	h h m m	Deact. time format hh:mm
Prog.2 Interval 1 calendar	224	1 2 3 4 5 6 7	Select: 1 = Monday 7 = Sunday
Prog.2 Interval 2 start time	225	h h m m	Act. time format hh:mm
Prog.2 Interval 2 end time	226	h h m m	Deact. time format hh:mm
Prog.2 Interval 2 calendar	227	1 2 3 4 5 6 7	Select: 1 = Monday 7 = Sunday

Prog.3 Interval 1 start time	228	h h m m	Act. time format hh:mm
Prog.3 Interval 1 end time	229	h h m m	Deact. time format hh:mm
Prog.3 Interval 1 calendar	230	1 2 3 4 5 6 7	Select: 1 = Monday 7 = Sunday
Prog.3 Interval 2 start time	231	h h m m	Act. time format hh:mm
Prog.3 Interval 2 end time	232	h h m m	Deact. time format hh:mm
Prog.3 Interval 2 calendar	233	1 2 3 4 5 6 7	Select: 1 = Monday 7 = Sunday

Prog.4 Interval 1 start time	234	h h m m	Act. time format hh:mm
Prog.4 Interval 1 end time	235	h h m m	Deact. time format hh:mm
Prog.4 Interval 1 calendar	236	1 2 3 4 5 6 7	Select: 1 = Monday 7 = Sunday
Prog.4 Interval 2 start time	237	h h m m	Act. time format hh:mm
Prog.4 Interval 2 end time	238	h h m m	Deact. time format hh:mm
Prog.4 Interval 2 calendar	239	1 2 3 4 5 6 7	Select: 1 = Monday 7 = Sunday

Prog.5 Interval 1 start time	<input type="text" value="240"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Act. time format hh:mm</i>
Prog.5 Interval 1 end time	<input type="text" value="241"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Deact. time format hh:mm</i>
Prog.5 Interval 1 calendar	<input type="text" value="242"/>	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="7"/>	<i>Select: 1 = Monday 7 = Sunday</i>
Prog.5 Interval 2 start time	<input type="text" value="243"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Act. time format hh:mm</i>
Prog.5 Interval 2 end time	<input type="text" value="244"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Deact. time format hh:mm</i>
Prog.5 Interval 2 calendar	<input type="text" value="245"/>	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="7"/>	<i>Select: 1 = Monday 7 = Sunday</i>

Prog.6 Interval 1 start time	<input type="text" value="246"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Act. time format hh:mm</i>
Prog.6 Interval 1 end time	<input type="text" value="247"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Deact. time format hh:mm</i>
Prog.6 Interval 1 calendar	<input type="text" value="248"/>	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="7"/>	<i>Select: 1 = Monday 7 = Sunday</i>
Prog.6 Interval 2 start time	<input type="text" value="249"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Act. time format hh:mm</i>
Prog.6 Interval 2 end time	<input type="text" value="250"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Deact. time format hh:mm</i>
Prog.6 Interval 2 calendar	<input type="text" value="251"/>	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="7"/>	<i>Select: 1 = Monday 7 = Sunday</i>

Prog.7 Interval 1 start time	<input type="text" value="252"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Act. time format hh:mm</i>
Prog.7 Interval 1 end time	<input type="text" value="253"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Deact. time format hh:mm</i>
Prog.7 Interval 1 calendar	<input type="text" value="254"/>	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="7"/>	<i>Select: 1 = Monday 7 = Sunday</i>
Prog.7 Interval 2 start time	<input type="text" value="255"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Act. time format hh:mm</i>
Prog.7 Interval 2 end time	<input type="text" value="256"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Deact. time format hh:mm</i>
Prog.7 Interval 2 calendar	<input type="text" value="257"/>	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="7"/>	<i>Select: 1 = Monday 7 = Sunday</i>

Prog.8 Interval 1 start time	<input type="text" value="258"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Act. time format hh:mm</i>
Prog.8 Interval 1 end time	<input type="text" value="259"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Deact. time format hh:mm</i>
Prog.8 Interval 1 calendar	<input type="text" value="260"/>	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="7"/>	<i>Select: 1 = Monday 7 = Sunday</i>
Prog.8 Interval 2 start time	<input type="text" value="261"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Act. time format hh:mm</i>
Prog.8 Interval 2 end time	<input type="text" value="262"/>	<input type="text" value="h"/> <input type="text" value="h"/> <input type="text" value="m"/> <input type="text" value="m"/>	<i>Deact. time format hh:mm</i>
Prog.8 Interval 2 calendar	<input type="text" value="263"/>	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="7"/>	<i>Select: 1 = Monday 7 = Sunday</i>

TELEPHONE PROGRAMMING SECTION

Telephone Section

305	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

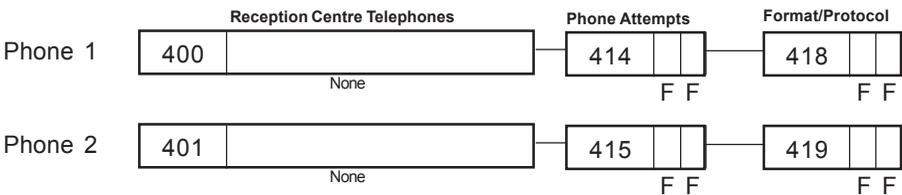
- 1) Enables two-way input. Remote PC connection with centre.
- 2) Telephone Test NOT fixed.
- 3) Telephone Split. Calls all Reception telephones.
- 6) Two-way permission by keypad, makes return call.
- 7) Reserved.
- 8) Activates listening after reporting alarm event to ARC.

Telephone Voice Communicator

306	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

- 1) Voice communicator. "Call All Telephones" working mode.
- 2) Voice communicator. "Security Recall" working mode.
- 3) Sends header message.
- 4) Individual call confirmation mode.
- 5) Activates listening automatically after messages.
- 6) Selects manual Listen/Talk mode, if not will be Hands-Free.

PROGRAMMING TELEPHONES TO A. R. C.



Programmable parameters in the telephones
 D: Line tone detection
 C: Pulse dialling. If not, dialling by DTMF.
 A: Pause for 2 seconds before continuing.
 The telephone numbers have up to 28 digits

If the data to be programmed are letters						
Letter	A	B	C	D	E	F
Key in	[*] + [0]	[*] + [1]	[*] + [2]	[*] + [3]	[*] + [4]	[*] + [5]

Example: Get the letter D by pressing [*] and then [3]

Formats
 0 = Tone 1400 - 4/2
 1 = Tone 2300 - 4/2

Protocol

0 = Ademco DTMF	5 = Universal
1 = Ademco Slow	6 = Silent Knight
2 = Sescoa	7 = Contact ID
3 = Radionics	8 .. E = Reserved
4 = Radionics Fast	F = Null

Reserved Protocols

Limit of events per hour

433	2	5	5
-----	---	---	---

Limits the n° of events that may be generated in an hour.

Report Delay

Time the equipment takes to make the call to the ARC in the event of an alarm during entry route. From 0 to 255 seconds.

109			
Sec. 0 3 0			

From 0 to 255 seconds.

Report Timeout

Maximum time an event remains in ARC report queue if the line is not available. If the line is restored before the time is up, it will attempt to send the incident report again.

440			
Minutes 2 5 5			

From 10 to 255 minutes.
(Do not program a time lower shorter than 10 minutes).

PRIVATE TELEPHONES

	Call telephones	Send options	Zones sending
Phone 1	406 <input type="text"/> None	449 1 2 3 4 5 6 7 8 All	450 1 2 3 4 5 6 7 8 All
Phone 2	407 <input type="text"/> None	451 1 2 3 4 5 6 7 8 All	452 1 2 3 4 5 6 7 8 All
Phone 3	408 <input type="text"/> None	453 1 2 3 4 5 6 7 8 All	454 1 2 3 4 5 6 7 8 All
Phone 4	409 <input type="text"/> None	455 1 2 3 4 5 6 7 8 All	456 1 2 3 4 5 6 7 8 All
Phone 5	410 <input type="text"/> None	457 1 2 3 4 5 6 7 8 All	458 1 2 3 4 5 6 7 8 All
Phone 6	411 <input type="text"/> None	459 1 2 3 4 5 6 7 8 All	460 1 2 3 4 5 6 7 8 All
Phone 7	412 <input type="text"/> None	461 1 2 3 4 5 6 7 8 All	462 1 2 3 4 5 6 7 8 All
Phone 8	413 <input type="text"/> None	463 1 2 3 4 5 6 7 8 All	464 1 2 3 4 5 6 7 8 All

PROGRAMMING PRIVATE TELEPHONE ALERTS

Sending to Private Telephones

4xx	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

- 1) Sends zone alarms.
- 2) Sends connection/disconnection (reproduces system status).
- 4) Sends zone faults.
- 5) Sends network fault and restore message.
- 6) Sends low battery and battery restoration message.
- 7) Sends Voice Test (reproduces system status).

Zones Sending to Private Telephones

4xx	1	2	3	4	5	6	7	8
-----	---	---	---	---	---	---	---	---

- 1) Sends Zone 1 alarms/faults.
- 2) Sends Zone 2 alarms/faults.
- 3) Sends Zone 3 alarms/faults.
- 4) Sends Zone 4 alarms/faults.
- 5) Sends Zone 5 alarms/faults.
- 6) Sends Zone 6 alarms/faults.
- 7) Sends Zone 7 alarms/faults.
- 8) Sends Zone 8 alarms/faults.

Private Telephone Parameters

424 0 Telephone attempts to call private telephones.
F F

425 Call delay between ARC and private telephones.
2 2 5

110 Telecontrol listen/talk time.
2 4 0

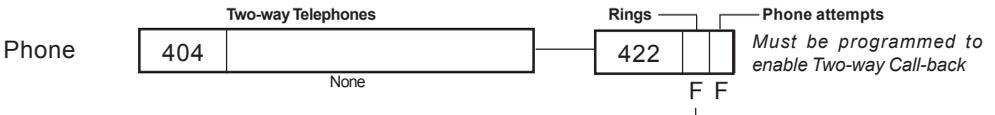
111 0 0 The number of times the voice messages will be repeated. Programmable from 1 to 9. The first two digits are "0".
0 0 3

Audio Parameters

Microphone volume 107 From 0 to 255, we recommend 240 for most applications.
2 4 0

Speaker volume 108 From 0 to 255, adjust in line with external amplifier equipment.
1 2 0

Two-way Telephone. Call-back



Must be programmed to enable Two-way Call-back

!F = The centre never responds
!E = Only special response

Subscriber Code Programming

Area 1 Subscriber
Code

4	2	6				
F	F	F	F			

Identification number for Reception Centre.

Area 2 Subscriber
Code

4	2	7				
F	F	F	F			

Telephone Test Programming

Telephone
Report

Test

5	9	1		
F	F			

Cadence Time Test

1	0	6			
Hours	0	2	4		

How often
sent.

Test Start Time

4	3	4			
Hours	0	0	0		

When it
begins.

Test Implementation
Minute

4	3	5			
Minutes	0	0	0		

Minute sent.

Report Programming

Zone 1	501	Av	Av	F	F	
Zone 2	502			F	F	
Zone 3	503			F	F	
Zone 4	504			F	F	
Zone 5	505			F	F	
Zone 6	506			F	F	
Zone 7	507			F	F	
Zone 8	508			F	F	
Rest/Tamper Zone	565	Rest	Tam	F	F	
Rest/Omission Zone	566	Rest	Omis	F	F	
Rest Fault/Rest Alarm	567	RAv	RAI	F	F	
Reserved	568	Res	Res	F	F	
Robbery Pre-alarm	570	-	Preal	F	F	
Tx Vr Fault or Receiver RF Saturation	571	Rest	AvTx	F	F	(not available)
Low Battery Tx VR	572	Rest	L Bat	F	F	not available)
«OUT» Output Faults and 12 V	574	Rest	Fault	F	F	
Expansion Module Fault	575	Rest	Fault	F	F	

User Connection/Disconnection	577	Con	Dis	F	F
Area Connection/Disconnection	578	Con	Dis	F	F
Alarm Cancellation	579	-	Anul	F	F
Coercion Code	581			F	F
Police Alert	582			F	F
Fire service Alert	583			F	F
Medical Emergency	584			F	F
Keypad Sabotage	585			F	F
Phone Line Fault	586			F	F
Network Fault	587			F	F
Network Fault Restoration	588			F	F
Low Battery	589			F	F
Low Battery Restoration	590			F	F
Phone Test	591			F	F
Date and Time Loss	592			F	F
Listening Activated	593			F	F
Delay Sending Network Fault	100			F	F

CONTACT ID Extended Codes

Alarm Zone Reports:

0	Standard alerts
1	Perimter robbery
2	Interior robbery
3	Gas detector
4	Cooling system
5	Heating system
6	Water leak
7	Broken glass
8	High temperature
9	Low temperature
A	Ventilation system
B	Low water level
C	Pump activated
D	Fire button
E	Medical alarm
F	No report

Fault Zone Reports⁽⁵⁾:

0	Sensor fault
1	Fire link
2	Generic tamper ⁽⁶⁾
3	Pump failure
4	Siren 1
5	Siren 2
6	Open link
7	Closed link
8	Module fault
9	Module tamper
A	Telephone line
B	Radio transmitter
C	Repeater fault
D	Communication to ARC
E	Detector masking
F	No report

- ⁽⁵⁾ **If the zone is disconnected, a zone fault event is generated, whereas if it is connected, the zone fault event is generated plus a zone tamper event.**

- ⁽⁶⁾ **For box and wall tampers, etc.**

DEFINITION OF CONCEPTS

AREAS

Areas are associations of zones in the centre.

DETECTA-6 has 2 independent areas that are freely assigned to the user codes. The user may be assigned the two areas.

CODES

The codes are the sequence of digits used for Centre connection / disconnection.

Depending on the code priority, more or less operations may be carried out. There are 4 types of codes:

- **Installer:** The engineer's code. Can only enter centre programming mode, not connect or disconnect.
- **Master:** There is one Master User, user nº 1, who must be the person responsible for the installation, being the only one that may implement code-protected functions (except omission, permitted to all), user programming and telecontrol of outputs.
- **User:** Codes that allow the users to connect and disconnect the Centre, as well as performing a series of functions (code changes, omission of zones...).
- **Service:** Code that can always connect, but cannot disconnect. Said code is code nº 5.

If you want these **codes to send a report by phone** to the Reception Centre when they connect and disconnect, you must program the addresses **[050] (connection)** and **[054] (disconnection)**, selecting the codes you wish to send the report. *

If your customer feels coerced and forced to disconnect the centre against their will, it is possible to send a report to the Reception Centre by telephone, indicating this disconnection mode "**Disconnection by Coercion Code**".

The coercion code consists of adding a "1" to the last digit of the code.

This function may be cancelled by programming, so that if it is keyed in, a Code Error is generated.

- **User Areas:** Defines the areas that will be connected/disconnected for each user. Ex-works, the codes have area 1 assigned. If, when the code is entered, the user has areas connected and disconnected, it will attempt to connect the disconnected ones.

* **Note: Add = address**

OUTPUTS

For all outputs / relays, if a time of 255 is programmed, the output will work in bistable mode (will be activated indefinitely until it is deactivated).

There are three types of outputs:

"OUT1" Outputs (Zone assignation: Add [617] - Activation time: Add [212])

The "OUT" outputs will be activated when the Zone/s they have been assigned are in alarm, and will remain activated for the time set in "Activation Time", which may vary between 1 and 255 seconds or minutes.

The OUT1 output is by MOSFET, connects with positive (+12V) and will work as programmed in "Work Mode". It may also be assigned to a relay/siren.

"PGM" Output (As per programmed options: PGM Activation: Add [303] or PGM Activation: Add [304] - PGM Output Activation Time: Add [214])

The "PGM" output will be activated depending on the option/s selected, and will remain active for the time set in "Activation Time", which may vary between 1 and 255 seconds or minutes. The output type is bipolar Transistor , connects with negative (GND) and will work as programmed in "Work Mode". See programming at addresses 303 and 304.

Relays 1..4. (Automatic relay programmings go from the address: Add [216] to address : Add [263])

Relay outputs are activated when the Zone/s they have been assigned are in alarm or else by automatic programs, and will remain active for the time set in "Activation Time", programmable between 1 and 255 seconds or minutes.

	Zone Assignation	Activation Time	Working Mode	Area Assignation
RELAY1	Add [622]	Add [208]	Add [204]	Add [264]
RELAY2	Add [623]	Add [209]	Add [205]	Add [265]
RELAYS3	Add [624]	Add [210]	Add 206]	Add [266]
RELAY4	Add [625]	Add [211]	Add [207]	Add [267]

Note: Add = Address

Controllability of Outputs and Relays

Both the OUT and PGM outputs or relays have a working mode option that enables them to be controlled by telephone or from the keypad. Only the Master User is authorised to control outputs.

Reminder NOTE:

1- Enter Device Control Mode. To do so, key in:

Master User Code + B_{2S}

Master User Code = User Code 1

2- Activate/Deactivate the desired device. To do this, key in:

Device	Description (*)	ACTIVATE	DEACTIVATE
1 (OUT1 Output)		1 + #	1 + *
2 (OUT2 Output)		2 + #	2 + *
3 (PGM Output)		3 + #	3 + *
5 (Relay 1)		5 + #	5 + *
6 (Relay 2)		6 + #	6 + *
7 (Relay 3)		7 + #	7 + *
8 (Relay 4)		8 + #	8 + *

(*) Description of device to be controlled (to be filled in by the installer)

When in Device Control Mode, when the n° of the device to be controlled is entered, the display shows its current status:



Once the activation/deactivation code (# or *) of the device to be controlled is introduced, the display shows its new status.

3°- Exit Device Control Mode. To do so, key in:

A

Auxiliary PGM Output

(Depending on programmed options: PGM Activation: Add [303] or PGM Activation: Add [304] - PGM Output Activation Time: Add [214])

Activate PGM if Area 1 Connected

The PGM output will remain active while area 1 is connected. Enable Function.

Activate PGM by Fault / Tamper detection in Zone Link

The PGM output will be activated when Fault / Tamper detection occurs in the Zone and remain active for the set time.

Activate PGM by Robbery Zone detection

The PGM output will be activated when detection occurs in a Robbery Zone and remain active for the set time.

Activate PGM by Fire Zone Detection

The PGM output will be activated when detection occurs in a Fire Zone and remain active for the set time.

Activate PGM by Coercion Code

The PGM output is activated when the coercion code is entered or when the [A+B] keys are pressed, and remains active for the set time.

Power Fire Zones with PGM

The PGM output will be dedicated to supplying fire sensors, being activated 4 minutes after the fire Reset function is implemented, or at the end of the fire alarm time set. Program with working mode 0 so that it is active by default.

Activate PGM by Sabotage in VR Channel

With this option, PGM output 1 will be activated if the VR receiver repeatedly detects an interfering signal in the VR channel able to block all the detectors in the installation.

Activate PGM during Entry and Exit

The PGM output remains active for the time set for Entry and Exit Route.

Activate PGM by Telephone Line Cutoff and/or Fault

The PGM output will be activated when a fault (cut) in the Telephone Line is detected or when there is no Line Tone. Line status monitor.

Activate PGM if Unable to Report Events

The PGM output will be activated when it has been unable to report the events to the Reception Centre, and remain active for the time programmed.

Activate PGM when Reproducing Messages.

The PGM output will be activated when reproducing messages over the loudspeaker, so that it can drive an external amplifier set, maintaining zero consumption when not required.

ZONES

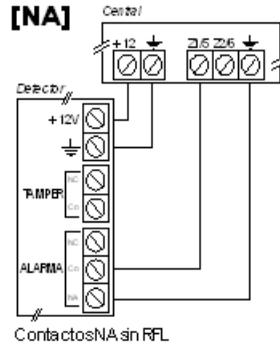
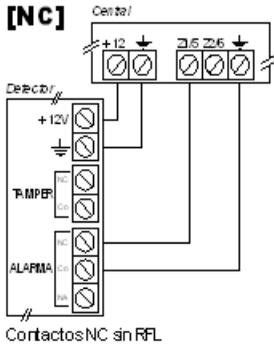
Zone Working Mode

- **NA Add [600]:** Zones with contact Open in standby.
- **NC (If neither Add [600] nor Add [601] are selected):** Zones with contact Closed in standby.
- **RLF Add [601]:** Zones with line end resistance. In standby, closes the link by grounding through a 2K2W resistor. If the link stays open (NA) or short circuits (NC), it will trigger a detection.

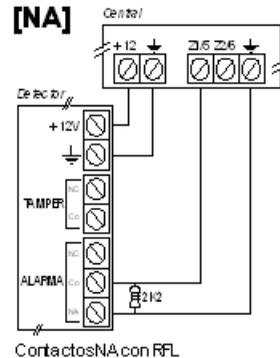
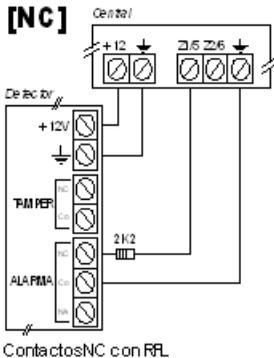
Resistance values:

- **2K2Ω:** Line End Resistance - (RED-RED-RED)
- **4K7Ω:** Doubled Resistance -(YELLOW-VIOLET-RED)
- **820Ω:** Tamper Resistance- (GREY - RED - BROWN)

- **Simple contact connection:** Connection of Zones WITHOUT Line End Resistance

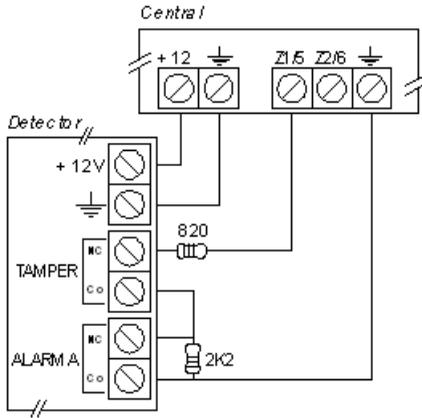


- **Connection of Zones WITH Line End Resistance**



· Zone Connection + Tamper same link:

Detection of Alarm and Tamper / Fault in the same Zone (link). NC Zone with Line End Resistance.



Zone Sensitivity Add [602]

The time (fast or slow) needed by the input channel in order to consider that detection has occurred. The sensitivity may be of 100ms or 400ms.

Priority Zones Add [603]

These zones do not allow the centre to connect if they are detecting at this time. The zone may be omitted by keypad, programming the "Keypad Zone Omission" feature Add [606], and in this way it becomes a "Priority Zone with Cancellation".

Auto-rearming Zones Add [604]

A zone with the auto-rearming feature, if it sets off an alarm and continues to detect when the alarm time is up, will reactivate the alarm once the Anti-Larsen time is up. If this time has not been programmed, the alarm will be constant. It will not stop.

A zone without Auto-rearming which triggers an alarm will be omitted when the Alarm time is up if it continues to detect, being restored when it stops detecting.

Anti-Larsen Time Add [208]

The period of silence between two consecutive alarms. Programmable from 0 to 255 seconds.

Zones with Auto-omission Add [605]

These zones, if detecting at the moment when the central is connected, are auto-omitted, and if they stop detecting, are restored automatically.

Omission of Zones by Keypad Add [606]

These zones may be omitted with the keypad, by means of the "Zone Omission" function. If they do not have this feature programmed, they cannot be omitted by the user.

Omission by 5 Detections Add [607]

These zones are auto-omitted when they alarm has been triggered, 5 times in the same connection, or continuously, in the case of 24-hour zones (tamper, fire).

Night Omission of Zones Add [608]

The zones programmed with this feature will be omitted when the "Night Omission" function is implemented. After omitting the zones, the centre connects.

24-Hour/Tamper Zones Add [610]

Zones in constant surveillance, which, when something is detected, activate the keypad buzzer and the "OUT" outputs and send the report to the reception centre. Activation is instantaneous.

If the zone has no output assigned, the keypad buzzer is not activated.

Robbery Zones Add [611]

Zone which, if activated when the system is disconnected, triggers a silent alarm, without activating the keypad buzzer while activating the assigned outputs. It also sends the corresponding report to the reception centre.

Fire Zones Add [612]

Zones in constant surveillance which, when detecting something, will trigger the alarm after the pre-alarm time is up.

- If the zone stops detecting (is restored) before the pre-alarm is over, the alarm will not be activated.
- If Reset (key [9_{2sec}]) is done during the pre-alarm, the zones that are detecting will be omitted. If the fire sensor PGM power option has been programmed, it will be activated after 4 minutes to cut off the power supply to the fire sensors so that they can be restored.
- When the [B+C] keys are pressed, the output associated with the fire alarm is activated instantly.
- The duration of the fire alarm depends on the activation time of the assigned outputs.

Fire Pre-alarm Time Add [105]

To be able to deactivate the fire zone before the alarm is activated, to make a visual check on the possible alarm. Programmable from 0 to 255 seconds.

The Fire Reset function (key [9_{2sec}]) stops the pre-alarm, omitting the fire zones that are in detection.

Entry / Exit Zones *Add [613] for entry time 1 Add [101]
Add[614] for entry time 2 Add [102]*

These are delayed trigger zones associated with the Entry times for disconnection of the Add [103] output for connection of the same. As the name indicates, they mark the routes that the user has to take to enter and leave the facility.

Entry Time *Add [613] for entry time 1 Add [101]
Add [614] for entry time 2 Add [102]*

The time the user has for the system to disconnect once they have been detected by the entry (exit route. When the time is up, if it has not disconnected, the alarm will go off. Programmable from 0 to 255 seconds.

Exit Time Add[103]

The time the user has to abandon the facility. Otherwise, if the time is up and the entry / exit route detects them, the entry time will start. Programmable from 0 to 255 seconds.

Monitoring Zones Add [619]

Zones associated with the entry / exit zones, delayed once the entry / exit route has been activated, whereas they are instantaneous if the route has not been activated previously.

Exclude Zones Add [616]

These zones are disabled (cancelled) indefinitely by programming, with no need to cancel them physically.

OPTIONS

Centre Functions Add [301]

Enable Zone Fault Detection

Activates fault / tamper detection in the zone links as well as the Vía Radio zones. Suitable resistors for the function must be installed. In the event of fault, if the zone is disconnected, it will generate a zone fault event, whereas if the zone is connec, it generates a Tamper event.

Tamper Detection Triggers Zone Alarm

This option will set off the alarm (sirens) if Tamper is detected in a Cable / VR zone that is connected.

Enable B + C, Activate Fire Outputs

Activates the outputs associated with the fire zones when [B+C] are pressed on the keypad.

Active "OUT1" Output when Connecting / Disconnecting

The "OUT" output will be activated to indicate Centre connection / disconnection. It is activated for 2 seconds when connecting and for 1 second when disconnecting. OUT1 must be programmed to time in seconds, otherwise it will be activated for 2 minutes.

Key Working Mode

The Key can work in two ways:

- **By impulsion:** There must be a status change for the Centre to connect / disconnect (NC-NA-NC or NA-NC-NA)
- **By level** (interlocking): The working mode will depend on how Zone 1 is programmed.

Zone Prog.	Key Position	Centre Status
NA Zone	Key in NA	Disconnected
NC Zone	Key in NC	Disconnected
NA Zone	Key in NC	Connected
NC Zone	Key in NA	Connected

Zone 1 as Key:

Zone 1 can work as a key entry for Centre connection / disconnection.

The Key zone will connect / disconnect the areas assigned to the key code, code 7.

Keypad Functions Add [302]

Temporarily Cancel Keypads

Annuls the keypads for 30 seconds when 4 wrong codes are entered.

Cancel Output Test

The outputs will not be activated when the Output Test function is implemented.

Cancel Coercion Code. Code + 1

The Coercion Code function (Robbery Code) is annulled.

Cancel Buzzer during Entry / Exit [Key 5_{2sec.}]

The keypad buzzer will not sound during the Entry / Exit Route.

Cancel Fast Connection Function

Fast connection of the system by pressing the [*] + [#] keys is not allowed.

Enable Keypad ZIN as Zone 1 of Centre

With this option, the Centre activates the ZIN contact in the keypads as Zone n° 1. The ZIN will always work as an AC contact with 400ms sensitivity. When activated, Zone 1 wired in the Centre is cancelled.

TELEPHONE SECTION

Telephone Section Options Add [305]

Enable two-way Input

This option enables two-way connection between the Computer and the Centre. Otherwise, you cannot enter two-way communication unless permitted by the user via the keypad.

NON-Fixed Telephone Test

The Telephone Test will only be sent when the Centre has not set up telephone communication between Test and Test. Otherwise (without this option programmed), the Telephone Test report will always be sent.

Telephone Split: Send to All

By default, once the report has been sent to the first telephone of the Reception Centre, no attempt is made to send it to the second telephone. However, with this option selected, it will try to send the report to the 2 telephone numbers in the Reception Centre. Eg: Telephone 2 of the Reception Centre is a maintenance receiver for the installer.

Enable Two-way Call-back Mode:

Two-way permission from the keypad, which by default allows a response to the call made by the Two-way program, changes to Call-back mode, meaning that once the permission is implemented, a call is made to the Call-back telephone automatically.

Activate Listening after Reporting:

Activates listening automatically after having reported an alarm event to the ARC.

Communicator with Private Numbers Add [306]

There are three working modes for the telephone communicator with private telephones. They are programmed at address **[306]**.

Mode: Call Once

The voice communicator will call and play the message to the first telephone that responds, after which it will hang up and not call any other telephones.

This mode will work when none of the others have been programmed.

Mode: Call All Telephones

The voice communicator will call all the programmed telephones and play them the message.

This cycle will be repeated as many times as telephone attempts programmed.

Mode: Security Callback

The voice communicator will call and play the message to the telephones that respond, calling back only to the telephones that have not responded.

This operation will be carried out until all the telephones programmed hear the message (respond) or until the phone attempts have ended.

Send Header Message

In this way, the header message will be played before the zone messages, so that the Centre can locate the call source.

Individual Call Confirmation

If selected, with the DTMF command [*+9], only the call back to the telephone that has executed the command will be cancelled. If not, the mode will be global, so that execution of the command will cancel the call to the rest of the telephones in the group.

Listening Automatically After Messages

Once the messages have been reproduced, the listening / telecontrol time will be activated automatically.

Select Listen / Talk Mode Manually

Listen / Talk after messages or in telecontrol mode will be manual by default. If not selected, it will work in hands-free mode by default.

Telephones

Telephones to Reception Centre *Add [400] - Add [401]*

The telephones that the Centre will call when it has to send the reports with Reception Centre protocol.

Events per hour Limiter *Add [433]*

This is the address where we program the maximum number of events that will be generated in the space of an hour. In this way, the existence of a continuous fault will not saturate the sending of reports. Ex-works setting = 255.

Call Delay *Add [109]*

This delay will be applied as soon as an alarm is triggered in a zone during entry time. If an alarm goes off in a second zone, or if the delay time runs out before the zone has been disarmed, the report is sent to the ARC.

Private Telephones, Voice Messages

Telephone 1 - Add [406], Telephone 2 - Add [407], ..., Telephone 8 - Add [413]

These are the telephones that the Centre will call when it has voice messages to send.

Two-way Telephone with Call-back *Add [404]*

The telephone where the computer with the Detecta-Express two-way program is installed, which will call the Alarm Reception Centre when a two-way communication with Call-back is established.

Number of Rings Add [422]

The number of rings after which the Centre will respond when it receives a call from the Computer for a two-way communication or a telecontrol call. Programmable from 1 to 9 rings. If "F" (*5) is programmed, the centre will not respond. If "E" (*4) is programmed, it will only respond in Special mode.

"Special Response" consists of the following:

1. The computer calls the alarm centre.
2. At the first ring, the PC hangs up.
3. Immediately, computer calls the alarm centre again.
4. The centre responds immediately.

Programmable Parameters in the Telephones

If the following letters are inserted when the telephone numbers are programmed, the functions described will be implemented:

- D>(*3) Detects if there is a line tone when the call is to be made, and if there is not, it will try another 4 times. If it still detects nothing, the communication will be ended.
- C(*2) The Centre will use Pulse dialling.
- A(*0) Pauses for 2 seconds before continuing to dial.

Number of Telephone Attempts Add [424]

Number of times that the Centre will try to call or will call the telephones programmed. Programmable from 1 to 9 attempts.

Formats

The Handshake tone (frequency) used to communicate with the Alarm Reception Centre.

- 0 = Tone 1,400 · 4/2
- 1 = Tone 2,300 · 4/2

Protocols Add [418]

Protocols are the language used by the Alarm Centre to communicate with the Alarm Reception Centres. The Protocols in use are:

- | | | |
|-------------|-------------------------------|-------|
| 0 | Ademco Express, DTMF | 10pps |
| 1 | Ademco Slow | 10pps |
| 2 | Sescoa, Franklin, Vertix, DCI | 20pps |
| 3 | Radionics | 20pps |
| 4 | RadionicsFast | 40pps |
| 5 | Universal High Speed | 40pps |
| 6 | Silent Knight Fast | 30pps |
| 7 | Contact ID, Point ID | 10pps |
| 8..E | RESERVED | |
| F | Null | |

Contact ID Protocol

The communication protocol, sent automatically depending on the Centre programming. To send the event, all you need to do is program the digit "0" in the reports.

The Contact ID protocol must work with format 0.

Contact ID Extended Codes

If you wish to send a report other than the one programmed in zone features, program a digit other than 0 in alarm reports and zone faults, according to the reports programming table:

Subscriber Code Add [426] and Add [427]

The ID number of the alarm centre, so that the reception centre will know which client the centre belongs to:

Telephone Test

Periodic report to the reception centre, indicating the correct status of telephone communication between the Centre and the Reception Centre.

Telephone Test Report Add [591]

Event that acknowledges the Reception Centre as telephone test report.

Telephone Test Cadence Time Add [106]

Period that elapses between test and test. Programmable from 1 to 255 hours. If the NON-Fixed Test option has been programmed, the test will be sent if there has been no communication between tests.

Telephone Test Start Time Add [434]

So that the telephone test is activated for the first time, this time must be programmed, being the moment as of which the test will start to be sent. Programmable from 1 to 255 hours.

Test Implementation Minute Add [435]

Indicates at which minute of the hour the Telephone Test will take place. Programmable from 1 to 59 minutes. If "00" is entered, it will be on the hour.

Manual Test

In Installer Programming mode, enter address 434, then press [#] for 2 seconds. To maintain coherence with the reception centre, the Date and Time must be programmed in the Centre, just as with a clock.

Telephone Reports

from address Add [501] to address Add [508]

from address Add [565] to address Add [593]

The Codes sent to the reception centre depending on the Event that has taken place. For a report to be sent, a datum other than "F" must be programmed. Programming of reports varies depending on whether it is a Contact ID or 4+2 protocol.

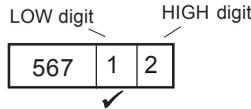
- For a report to be sent in Contact ID, all you need to do is program a datum other than F, as Contact ID has a predefined parameter, whereas for 4+2 you need to consult the ARC for the digits that must be programmed for each type of event you wish to send.
- Programming of reports differentiates between those where one digit is programmed and those with two. This is because the events that contain a zone / user number are composed in 4+2 with 1 digit + zone / user number, which does not happen in events such as Telephone Test, which require 2-digit programming.

- Any incident in the system will generate an ON event and an OFF or restoration event. In 1-digit reports, restoration is programmed at the same address as the ON report. In 2-digit reports, you will need another address.

Zone Alarm Add [567]

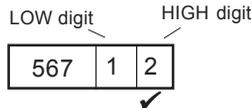
Sent when alarm detection (robbery, fire, intrusion...) occurs in a zone. Programmed in the lowest digit and selectable zone by zone.

- Alarm restoration will be sent if the low digit of address 567 is programmed.

**Zone Fault Add [567]**

Sent when a fault occurs in the zone, is programmed at the high digit and is selectable by zone.

If the fault disappears, the fault restoration report will be sent, programmable at the high digit of address 567.

**Zone Tamper Add [565]**

Sent when tamper detection occurs in a zone, programmed with the low digit of address 565. If the tamper is restored, the Tamper restoration report is sent, with the high digit of address 565.

Zone Omission / Restoration Add [566]

When zones are omitted or rearmed, this report + zone number is sent. Low digit for omission and high digit for restoration. Address 566.

Robbery Pre-alarm Add [570]

Sent when an entry route is activated, only the low digit is valid. The ARC will trigger the alarm if it does not subsequently receive the disconnection message from the subscriber that sent the robbery pre-alarm. See address 570.

"OUT1 or OUT2 or 12Vaux" Output Fault Add [574]

Sent if a fault occurs in the supervised output. Report + output n°. This report also applies in output +12Vaux faults. The low digit sends the fault message, whereas the high digit sends the restoration message for these outputs. Add 574

Bus Fault Add [575]

Sent if a fault occurs in communication between the Centre and the keypads / modules. The low digit sends the loss and the high digit the restoration. Add 575

User Connection / Disconnection Add [577]

Sent when the users that have been programmed connect or disconnect + the number of the user that has carried out the operation. The high digit sends the Connection report while the low digit sends the Disconnection, at address 577.

Area Connection / Disconnection Add [578]

Sent when Areas connect or disconnect. The high digit sends the Connection while the low digit sends the Disconnection, at address 578.

Alarm Cancellation Add [579]

Sent if an alarm goes off and the Centre is disconnected while in alarm. Report + the user that has disconnected. Low digit of 579. There is no restoration of Alarm Cancellation.

Coercion Code

Sent when the Centre is disconnected using the Coercion Code. Code + 1. There is no restoration. The two digits must be programmed.

Police / Fire / Ambulance Service Alert

Sent when the keys corresponding to each of these functions are activated:

- **[A+B]**: Police Alert. Add [582]
- **[B+C]**: Fire Service Alert. Add [301] and Add [583]
- **[A+C]**: Ambulance Service Alert. Add [584]

There is no restoration report. The two digits must be programmed.

Keypad Sabotage Add [585]

Sent when the the wrong code is entered 4 times consecutively via the keypad. There is no restoration report. The two digits must be programmed.

Telephone Line Fault Add [586]

Triggered if the Centre detects a break in the telephone line. Transmission is through the modules connected to the communication bus. There is no restoration report. The two digits must be programmed.

Network Fault and Restoration Add [587] and Add [588]

Sent when the Centre is without mains electricity and the "Delay Time" programmed ends. Once the supply is restored, the restoration report is sent after 1 minute.

Battery Low and Restoration Add [589] and Add [590]

When the battery tension is lower than 11V, the "Battery Fault" is sent, and restoration reports are sent 30 seconds after the power level is over 11V. The battery test is dynamic.