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XR400GSM Xr800GSM

Central 4/8 zones with dialing pad GSM and incorporated detector

INSTALLATION GUIDE AND USE



1 Introduction

1.1 Features

- Antitheft alarm, two delayed locations + two ready locations(6 for XR800GSM)+phone line 24h.
- 4 cabled hubs (8 for XR800GSM) or singularly programmable radio hubs.
- Module DXR2 included
- Management of new radio controls DXR4 that display the correct connection/disconnection and that warn the memory alarm.
- Integrated console endowed with a backlit LCD and management of an additional console DX22 connected on bus RS485.
- Infrared sensor DigiPyro with 3 rays, maximum range 5 mt in order to turn the backlit on automatically on the display and usable keyboard as a detector and at the same time on the delayed area number 1
- Connection for the remote control command accessories type PXR, SK and KBC and output (V and R) in order to inform about the status of the system with LED.
- Output for the automatic activation of the external devices (Eg: Lights, Furnaces etc.) about connection / disconnection of the system or on local command from the console o from the remote control through phone call communication.
- Management of the new charger (AL35EN) with control and visualization of the voltage, of the charge of the efficiency of the battery, of the voltage of power source and of the presence of the network connection on the display of the console.
- Two modalities of partialization of the system selectable from the console, from connectors, from a remote controller or through remote connection GSM.
- Possibility to use proximity sensors DX100/DX300 (maximum 4) in order to choose the modality of
 partialization and for the related command.
- New line of connection RS485 with protocol "DX bus" for the connection of the new peripheral devices of the series DX.
- Telephone dialer GSM with preregistered voice mail and SMS and customizable voice mail of 10 seconds, with GSM module Quad Band.
- Sendable SMS with the status of the system report, identification of the area and warning about the status of the power source.
- Telephone alarm and warning about the status of the system, status of the areas, status of the power source and alarm memory with pre-recorded voice.
- Voice guidance menu in order to use it locally o through telephone connection for the command and or query of the status of the central computer and of the areas and for the exclusion of the areas
- Voice responder with the activation of the guide for the menu.
- Listening environment during the phone connection.
- Telephone notice for the prolonged absence of the power source of the network.
- Indication of the telephone company and of intensity of the signal on the display.
- Query of the phone credit left through the return of SMS.
- Optional return of the received messages SMS.
- Telephone book of 16 numbers
- Case made of ABS with a battery compartment B12V7, 5A.
- Degree of safety: 1
- Environmental class: 2
- Possibility to remove completely the front panel in order to access inside the case.
- Board for connections on the base of the case with activation of maintenance mode (Keeps the
 power source on the external siren with the removed front panel), for an easy wiring and an
 ordered cabling (EASY CONNECT SYSTEM) with a base for the connection of the radio module
 DXR2.
- Anti Tamper and anti opening Tamper.



1.2 Technical Characteristics

	XR400GSM	XR800GSM
Immediate Protection Zones	2	6
Delayed Protection Zones	2	
Tamper protection zones "24" h	1 + Ta	amper
Maximum absorption (central computer only)	65mA@	230Vac
Total power supplied from the power source	35W (2,6A	h a 13,5V)
Compartment for buffer battery	Battery B	12V7.5 Ah
Duration programmable alarm	From 180) to 600 sec.
Programmable Time of the coming out	From 0) ÷ 60 sec
Programmable Time of the coming in	from 0 ÷ 60 sec	
Angle of coverage of the detector on the panel	H: 85°; V: 60°	
Maximum coverage of the detector on the pane	e 5mt	
Numbers in the phone book	16	
Maximum output current of outcoming services	3 1A	
Nominal supply voltage	230V~ ±5% 50Hz	
Maximum absorption	160mA@230Vac	
Outcoming services	13,5Vcc ±10%	
Outer container	ABS	
Degree of protection of the container	IP40	
Security level	1	
Environmental class	2	
Operating temperature	+5°C ÷ +40°C	
Dimensions (L)	280mm	
Dimensions(A)	230mm	
Dimensions(P)	96mm	
Complying with the norm	CEI EN 50131-1	

2 Installation

2.1 General instructions

- Do not install the central computer in extreme hot places or expose to bad weather.
- In order to fix it safely and strongly it is appropriate to make sure to mount it on a flat surface.
- Position the central computer at an easy access height in order to use the front panel.
- Fix the bottom of the container on a flat and stable surface through the dowels, do 4 holes of 6 mm corresponding to the angles of the container.
- The connection cables of the external devices and the power cables can go in inside of the container of the central computer through the hole that is in the middle of the bottom.
- The connections must be carried out following the regulations CEI 79-3-2012 "Particular regulations for the burglary systems, intruder, theft protection and anti-aggression.

2.2 Power supply

The power supply system is provided by the power supply - charger that is inside the central computer that keeps in charge the battery constantly (B12V7, 5Ah).

WARNING!

The mains voltage 230V must be connected to the power supply/charger through two double insulation conductors of 1,5 mm² coming from a switch (Eg. Switch magnetermic) used for the central burglar exclusively. Put in order the two conductors inside the central computer, block them through the supplied cable gland, possibly by means of clamps.

In order to respect the safety legislation you need to carry out and verify the connection to the earth system, as shown in figure.



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2.3 Installation of the anti theft Tamper

Drill a hole in correspondence with the placeholder on the base of the container and insert the plug supplied.

Tighten the screw leaving protrude from the mounting surface as required in order to keep the tamper contact closed (6-10 mm).

Place the plastic support in the hole on the base, fit the supplied spring on the pin button on the tamper circuit, screw the tamper circuit on the two supports, inserting the protruding spring by the button inside the plastic holder.

Make sure that one the circuit is screwed the button must be pressed down, otherwise it will be necessary unscrew the protruding screw from the mounting surface by a few turns so that protrudes further.

Engage the cable provided on the tamper card into the connector.

The wires of the tamper must be connected in series to the protections of the devices on the line 24 h of the connection card.





2.4 Description of the board EASY-CONNECT

Once the connections are completed, insert the two conductors equipped with faston type connector from the feeder to the battery, respecting the polarity of connection.

Red= [+] positive battery / Black= [-] negative battery

WARNING!

In order to let operate the system correctly, the battery must always be connected.

After connecting the battery of the central computer and the siren, you will turn on the system through the selector connected to the power. The LED of the network on the panel of the central computer stops flashing and it remains with a steady light to indicate the presence of the network tension. In order to respect the regulations and for safety, you need to carry out and verify the connection to the earth system to all the devices that need it.



Cx1 Connector for internal transceiver DXR2 for devices series XR.

Notes: T	he transmitter DXR2 must be inserted with the components facing downwards.
1 (Fusibile F1)	Fuse 1A for outcoming services/ external power supply.
2 (Fusibile F2)	Fuse 1A for outcoming sirens.
6	output for internal sirens
7	Connection GND for sirens.
8	Output for external self-powered siren.
3-4	Output for the connection to LED V and R on additional control equipment devices PX
	SK, KB.
5	Input for command pulse about input/output from additional devices PX, SK, KB.
9-10	Connection for the new bus RS485 type DX bus for new devices series DX.
11	Connection GND for external power source.
12	Connection +12 for external power supply
13	Output for command/enabling connection for external devices.
14	Connection GND.
15	Input line 24h logic NC/ balanced
16	Connection GND
17/20	Line for the input of zone 1 4 logic NC / balanced.
21	Connection GND.
22-25	Line for the input zone 5 8 logic NC / balanced, (XR800GSM only).

Cx1

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2.4.1 Easy-Connect System

The new system Easy-Connect, used in the central computers XR400GSM and XR800GSM, it was projected to ease the installation and the maintenance of the system.

The circuit of the central is divided into two boards:

A-The board of connections / fuses.

B-The board of the console and CPU.

It is possible to cable the cables inside the central computer by removing the front panel console/CPU completely, so that it can be achieved more space. Once you finish cabling, it is possible to reassemble the front panel and connect it through the flexible multipolar cable rapidly.

Through the connecting cable, it is possible to activate the maintenance mode: disconnect the cable from the console panel/CPU and insert it into the connector maintenance on the links tab; the red LED on the board lights. In this mode, with the power supply connected to the network and/or the battery inserted, the polarization of the external siren is maintained and stops to alert.



NOTES. The red led on the connection board indicates the maintenance method.



2.4.2 Connecting volumetric detectors and contacts





2.4.3 Connections of sirens





2.4.4 Connection radio receivers DXR1/DXR2

To manage radio devices series XR (contact XR200, sensors infrared XR152 and XR8, siren XR300, radiocommands XR20 and DXR4) on this central is installed a module radio **DXR2**. DXR2 is connected directly on the connector CX1 of the circuit Easy-Connect inside of the central unit that shall ensure the connection to the line RS485- DX bus.

DXR1 connects on the line DX bus like in the figure , and can be placed far away from the central unit ina position to obtain more coverage for the radio signal of devices of the series XR.

On the central unit anyway it isn't possible to work more than two transceivers.

For all devices DX bus, it is necessary to assign an unique addresse to the transceiver.

DXR2 it's already configured with addresse **32** and cannot be modificated . It's possible to mount only one DXR2 on the central unit, un eventual second transceiver can be only one DXR1 with addresse **33**.

DXR1 have a dip switch two positions with whichto select ands addresse accepted from the central unit :

- 32 with both dip switch in off;

- **33** with both dip switch 1 in on and 2 in off. If utilise DXR1 in addiction to a DXR2 it's necessary to configurate it only with addresse **33**.

The central unit XR400GSM and XR800GSM accept only transceiver with addresse 32 or 33 and doesn't accept devices with duplicate addresse.

	Possible configurations			
e Receiver 1		Receiver 2		
Α	Not present	Not present		
В	DXR2 (Interior)	Not present		
С	DXR2 (Interior)	DXR1 (Addresse 33)		
D	DXR1 (Addresse 32)	Not present		
Ε	Not present	DXR1 (Addresse 33)		
F	DXR1 (Addresse 32)	DXR1 (Addresse 33)		





NOTE: The red LED on the devices DXR1 and DXR2 diplays the reception of a radio signal, while the green one diplays the transmission towards other devices. In the waiting phase, the red LED flashes to diplay the proper functioning. Where it occur errors of connections the two LEDS flash alternately while they flash together when the receivers are not enabled on the central computer.



2.4.5 Connecting key readers DX100/DX300



ΝΟΤΑ

PROTEC4GSM and PROTEC8GSM manageo until 4 readers that must beconfigured invidually through dip-switch .

WARNING: Make sure not to use the same address on more devices.

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2.4.6 Connection of the console Dx22



WARNING:

On this central computer, the input IN and the output OUT of the console DX22 are not used. The ID of the console must be regulated at 08, otherwise it will be displayed the writing:

UNADDRESSED CONSOLE

In order to readdress the console at 08 you have to:

-Power the console

-Press the button 😿 for 4 seconds to start the main manu

- -Choose the menu address and confirm with ⋥
- -Select address 08 and press (ESC)
- -Confirm the changes with the button ★



2.4.7 Connections with the traditional electronic key



* *This connection provides for the activation of the tamper alarm 24h when used a false key.

NOTE: In case of installation of PX100/SK100, place the bridge JP1 so that you can set the OUT in monostable modality. (generates a control pulse).

NOTE: Have a look at the SK100 manual.



2.5 Connecting the console board/cpu

Once finished the connections on the board Easy-Connect, it is possible to reconnect the console board/CPU. Use the multipolar flexible cable and verify to insert it in the board on the bottom of the container on the central connector JX1. The other end of the cable must be inserted in the connector J3 on the console tab edge. The two connectors are endowed with an index of insertion and allow to mount the flexible cable in one position only. Position the panel on special supports and fit it under the two lateral hooks. Tighten the two sealing screws to the lower corners of the panel. Before powering the unit, insert the SIM CARD inside the SIM module turning the contacts down and put the beveled corner inside as shown in figure. The SIM Card must be free of lock code; if needed, use a phone to delete the lock code of the SIM Card. Fully insert the antenna connector until you hear it click. Once completed the wiring , insert the two spade connectors from the feeder on the battery respecting the polarity: red connector on the positive (+) of the battery and the black on the negative (-) and give the power supply voltage by activating the selector prepared for the system.

WARNING!

In order to use the system correctly, the battery must be always connected.



- 4 Setup button
- 5 Anti-opening tamper

3 Programming

It is possible to interact with the central computer from the console using the panel through the menu: -Programming menu: you can access by entering the code SETUP (5678) of default) in order to program and for the operating parameters of the central computer.

-Control menu: you can access by entering the USER code (1234) of default) for the command of the central functions.

-Voice menu: the menu is enabled by pressing the button **#** from the keyboard or from through telephone connection GSM. Through a guiding voice you can access the control functions dialling your user code when required.

The control unit displays cyclically the reports related to the status of the system like the state of the alarm memory the status of the power supply, the exclusion of areas and anomalies of the system. These indications can be used pressing these buttons $(\checkmark)/(\blacktriangle)$

Before to use the central unit, it is necessary to configure its functioning.

3.1.1 Access to the Programming Menu

5678#

Dial the code SETUP ((5)(6)(7)(8) default) and then (#) or (I) on the System console while the central computer is turned off.

In the programming menu are available the following entries:

1-Telephone book 2-Setup	to insert, modify or erase 16 telephone numbers. to manage the keys, the entry codes, data entry and output, alarm duration, limitation of the number of alarm cycles, configuration of logical/balanced zones, capacity control system, mute and privacy for the enterers, enabling of devices on bus RS485 and management of the alarm 24 h when there is no link, activation mode output +INT, forwarding received SMS and starting GSM module.
3 - Info	indication about the release of the firmware, IMEI of the module GSM and indication on the electricity network presence.
4 - Reset of installation	To restart the central module GSM.
5 - Cancel Setup 6 - Call tests 7 - Welcome msg	To delete all the control panel configurations and bring it to the factory settings For the control of the GSM network. For the recording and playback of the personalized message.

Press the buttons \bigcirc / \bigcirc the preferred voice and confirm the choice with \bigcirc or (#), or dial the number of the option to access to the chosen option. In order to exit the menu dial or , or .

NOTE:

- If you try to enter a wrong code (after having pressed 24 buttons), the keyboard stops working for 15 seconds, during this time you can't try again.
- If you don't use the keyboard for about 1 minute, the central computer closes the program menu and it is ready for use.
- When the central computer is enabled, it isn't possible to enter the program menu.
- If you forget the SETUP code it is possible to enter the program menu and modify the enter codes, keeping pressed the SETUP button on the electronic board of the central computer. In order to access to the board will provide the opening of the case of the central computer enabling an alarm cycle for 24 h.

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Programming

(5)(6)(7)(8)(#)

3.1.2 Telephone book

Entering telephone numbers Once you enter the program menu, press 1 to visualize.

> ADDRESS BOOK Enter numbers

Press (#) or (). On the diplay will appear:

Number 01 Not Programmed

Use the buttons 💌 or 🔺 to select one of the 16 memory locations of the telephone book and press

# or	L)
-------------	----

At this stage you have to enter the telephone number (maximum 16 numbers):

Number	01	
1234567	89	>

NOTE: In order to correct any typing error use the button 🔹 to delete the last number you dialled or select the wrong one using the buttons () () and dial the correct new number.

In order to confirm press the button *#* or *I* . You can visualize:

Send	SMS	all.?
7 = Y	ES	9 = NO

Press the buttons 7 or 9 in order to communicate to the central the order to to send or not the SMS of alarm to the set up telephone number.

When the following inquiry will appear:

Warning no	Power?
7 = Y E S	9 = NO

Press the buttons 7 or 9 if you wish to send or not a voice message in case of a prolonged lack of electricity network for the set up number. When the following inquiry will appear:

> SMS no Power? 7=YES 9=NO

Choose **7** or **9** if you wish or not to send SMS in case of a prolonged lack of electricity network for the set up number.

NOTE: The SMS and the voice call alert are carried out after 30 minutes of lack of electricity network, also when the central computer is not enabled.

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In order to delete a telephone number, enter the menu "Telephone book" and press the buttons ()/() until you put in evidence:



press the button (7) in order to confirm the cancellation.

On the diplay will appear for a few moments:



At the end, press (ISC) or (in order to come back to the former menu.

Programming

5678#2

3.2 Setup

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Enter the program menu and dial (2) or use the buttons ()/() in order to visualize:

Write key 2-Setup

And press *#*or .

Write key	- Write the memorized code in the central computer on a key.
New Key Code	- Nead the code non a key and memorize it in the central computer.
	- Memorize the new code in the central computer.
	- Modify the SET OP code to access to the program.
USERCode	- Modify the USER code for the access to the commands.
Pre-alarm time	- Modify the timer entrance.
Exittime	- Modify the timer exit.
Alarm duration	- Modify the duration of the alarm of the sirens.
Max 5 cicles all.	 Limit the maximum numbers of the cycles of alarm for every insertion.
Area Log/Bal/Rf	 Configure the zone lines with a logical or balance entrance.
IR on Area 1	- To enable or less the detector infrared placed on the panel to alarm the 1 zone
Partial A	- Which zones check with a partial insertion A.
Partial B	- Which zones check with a partial insertion B.
Ins. Input key	- To allow to configure which type of connection will made with a pulse on the terminal block "KEY".
Ins. from Keyfob	- To select which type of connection will be made from two button remote controls (DXR20/XR20)
Beep key reader	-Adjust the loudness of the beep of the key readers DX300.
Privacy key readers.	- Hide the information about the status of the central computer and of the key readers DX300.
Beep key reader	- play audible alarm on the key readers DX300.
Radio Code	- Code of 18 binary digits (a sequence of "0" and of "1")
485 Device	- Enable the key readers on the bus RS485
24h Device 485	- Enable alarm 24 h when lacking the link of the devices on bus RS485.
OUT + INT Setting	- Mode of operation of the output + INT.
Forward SMS	- Sending the received SMS to the first number in the telephone book
GSM Module	- Enable module GSM

In order to exit the SETUP menu and come back to the program menu, press (SSC) or (.

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3.2.1 Write key

This function allow to writ in the keys DXK, PX and KEY the code of the central unit.

To select the first voice :

And dial # or .

The display visualize:

WAIT PROGRAMMING

The LED of readers DX200 and display of DX300 flashing fast awaiting of a key DXK/KEY. To approach a key to the connector and to wait that finishes flashing .

The central unit will emit a Beep of writing confirm and will be visualized for a moment on display the message

WRITE KEY

Repeat this operation for every key DXK or KEY to use on the central unit .

If you don't approach a key within 1 minute Ithe function is canceled and the central unit goes out from programming menu

NOTE: It's necessary to enable the readers before to write keys.

3.2.2 READ THE KEY

Through this function it's possible to replace the code morized in the central unit reading it from a programmed key before.

To select the command Read key and dial (#) or (

The display will visualize the following message :

WAIT READ



It's necessary to enable the readers before to write keys

To approach the key PX to DX100, or the key KEY to the reader DX300

The central unit will emit a Beep to confirm the occurred reading and will be visualized for a moment and the confirm message

READING KEY

NOTE: It's necessary to enable the readers before to write the keys.



3.2.3 NEW KEYCODE

Through this function it is possible to substitute the memorized code in the central computer with a different one automatically generated. Select the function

And press (#) or (-

The display will show the following message:

NEW KEY CODE OK

NOTE: It is necessary to enable the readers before writing the keys.

3.2.4 SETUP CODE

The Set Up code allows you to access to the programming central computer. Use the buttons \bigcirc / \bigcirc until you visualize on the display:



and enter the 4 numbers of the code

3.2.5 **USER CODE**

The user code, allows you to access to the command functions of the central computer. Press di buttons 💌 / 📥 until you visualize:

USER Code

And press (, or () to modify this code

USER Code _ _ _ _

Dial the new code of 4 numbers again.

3.2.6 **Entrance Timing**

The entrance timing in is the time the user takes to come to the protected environments and disconnect the system before the alarm signals activate. During this time, a possible detection of the sensors on the protection zones delayed (zone 1 and 2) won't activate alarms and won't activate the alarm memory. The time is set for 15 seconds of default.

Select:

Pre-alarm time 015

to set the time you need (from 0 to 6 seconds), press the button *#* and the display will visualize:

value Enter >---<

Dial the needed value (always 3 numbers) and press #/

Pre-alarm time 055

The display will visualize the new value. If the dialled value is higher than that permitted, the central computer will play a long sound "beep", and the display will visualize:

> WRONG VALUE Min=000 Max=060

The exit timing is the time the user takes to leave the protected environments after the system is enabled. During this time, a possible detection of the sensors on the protection zones delayed won't activate

alarms. The time is set for 15 seconds of default. Select:

utton (#) or (-) and the display will In order to set the time you need (from visualize:

Dial the value you need (always 3 numbers) and press

Exit time 055

If the value you entered it is not allowed, it will appear the indication:

WRONG VALUE Min=000 Max=060

(#) or (and the display will visualize :



security 3.2.8 Alarm Duration

. ΗΙΙΤΓΟΠ

The duration of the BEEPS both on the sirens and on the key readers DX300 (if enabled) can be set between 180 and 600 seconds (from 3 to 10 minutes).

The duration of the alarm signals 24h when the system is disconnected is fixed at 180 seconds. In the SETUP menu select:

Alarm Duration 180

and press (, or () to modify the duration:

Enter Value >---<

Dial the new value between 180 and 600 seconds. (It is necessary to to dial 3 numbers followed by *I* or *I*

The new value is memorized:



If the value is not allowed to be in the available range, on the diplay will appear this signal for a few moments:

3.2.9 Maximum 5 cycles of alarm

With this option, if "disabled", the central computer will keep reporting the alarms by activating the sirens and the telephone dialler every time there will be an alarm.

Select:

Max 5 alarm cicl Enabled

In order to change the status, press the button **#** or **-**:

Max 5 alarm cicl Disabled

Enabling this function, the central computer carries out all the signals 5 times, then it ignores every new signal of alarm, until you don't give a new command for the connection/ disconnection that resets the alarm memory.



3.2.10 Logical zones / balanced / radio

This option allows you to change the functioning of the entrances of the zones and to signal the radio zones. Select this option from the SETUP menu with the buttons 💌

In order to change the setting related to the zones, dial the number corresponding to the zone to modify one time to pass from logical to balanced, then from balanced to radio and finally to come back from radio to logical.



Areas Log/Bal/Rf >LBBLLBLRR<24H:B

(with the button 9 you can modify the line 24h, only LOCIGAL or BALANCED).

A balanced zone requires to close the line through a resistance of 3,3 Kohm.

The central computer will recognize the alarm on the zone both when increases the impedance of the line (the opening of the line or the cutting of the conductors), both when decreases (short circuit of the line). A logic zone, instead, doesn't need resistances and it will be considered not in alarm when the line is closed. The balanced line provides a better degree of safety towards possible manumissions. If a criminal puts in short circuit the two conductors of a logic line connected to a sensor, the same sensor won't start the alarm of the central computer. With a balanced line, instead, the manumission and the attempt to put it in short circuit, will allow the signal of alarm to start on the central computer. To make an effective protection of the line, the balancing resistance that is inserted on the line in series, it must be placed as nearest as possible to the end of the line, next to or inside the sensor and far from the central computer. A zone configured as radio zone, will accept the sensor signals of the serie XR on which is set the code of the following table and also the radio code of the central computer.

	XR800GSM
000 = zone1	001 = zone5
100 = zone2	101 = zone6
010 = zone3	011 = zone7
110 = zone4	111 = zone8

NOTE: When a zone is defined "Radio" the relative input in the terminal board is not used.



3.2.11 IR on delayed zone

This option enables the infrared detector that is on the panel in order to alarm the zone 1 (delayed): Select:

IR On Area 1 Disabled

In order to change the status, press the button (#) or (\blacksquare) .

IR On Area	1
Enabled	

NOTE: In both cases, when the sensor detects a presence in the surroundings of the central computer, the display backlights and keyboard backlights turn on.

3.2.12 Partial System A and B

This option allows to set the zones to include/exclude from supervision when you enable the central computer in a partial manner.

Using the buttons $\bigcirc / \bigtriangleup$, to scroll the menu SETUP until the word:

or:

On the second line of the display, appear the numbers of the zones that will be guarded with the enabled system set as needed. Dial the number of the zones you want to modify.



3.2.13 Enabling with input key

Allows to set what kind of insertion will be carried out with a pulse on the terminal "KEY". Select:

Ins. Input Key Arm all areas

Press (#) or (-) to modify this parameter

Ins. Input Key Arm Partial A

and dial (#) or (I) to achieve:

Ins. Input Key Arm Partial A

3.2.14 Kind of insertion from remote controller (for DXR20/XR20)

This option is used to select what kind of insertion will be carried out from remote controllers with two buttons DXR20/XR20.

Total stallation

Ins. from Keyfob Arm alla areas

Use the button # to switch from a kind of insertion to another.



With the remote controller DXR4 (with 4 buttons) the button above on the left can enable the TOTAL system, while the two buttons below can enable the PARTIAL INSTALLATION A and the PARTIAL INSTALLATION B, independently from how this parameter is set.



3.2.15 Volume of the beep on the inserting DX300

This option is used to set the intensity of the beep generated by the inserting DX300 when a key must be recognized. In the menu, select ∇

Beep Key Reader >HHLL<

Dial the number of the inserter you need to modify from H high to L low and vice versa. This configuration woks only on the inserters DX300.

3.2.16 Privacy mode on inserter DX300

It is possible to visualize the status of the system on the inserters DX300 only when you bring near a valid key KEY.

Select with the buttons \bigtriangledown / \checkmark the option:

Priv Key Reader >VVVN<

On the second line of the display, are indicated the current settings with:

V for visualize or N for hide

Dial the number of the inserter that you want to modify.

3.2.17 Activation of the buzzer of the dx300 on the alarm

It is possible to enable or not the buzzer on the inserters DX300 in order to signal the the alarm of the central computer.

In the menu SETUP select the option:

```
Beep Key Reader
>NNSN<
```

Dial the number of the inserter on which modify this option

N= NOT ENABLED

S=ENABLED

In case of alarm, the inserters DX300 on which this function is active, will give the signal of alarm loudly, without considering the setting "L" for the inserter BEEP.



3.2.18 RADIO Code

The code of 18 binary digits (a sequence of 0 and 1) that is possible to program and visalize in this section is that one used from XR800GSM and that has to be to set in all the radio devices that have to be connected to the central computer. Devices with a different code won't be managed by the central computer.

Below there is a scheme with 18 boxes inside which you can write the code used by the central computer:

WARNING: the system code can't be composed of all 0 or 1



VALID CODE

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3.2.19 Devices 485

The devices connected on the bus 485 must be enabled to allow the management of the central unit. Select the option :

485 Devices

Press (#) or (-)

with the buttons $\bigcirc / \bigtriangleup$ select the device to enable o disconnect and press (#) or I to modify the setting.

For example if you select :

Console 8 Disabled

(on the right on top will appear the ID on the network RS485) If you dial **#** the display will show the writing:

Console	8
Link OK	

If you enable a device that is not conncted to the central unit, the display will signal:

Console	8
BAD Link	

When a device on bus 485 generates an alarm 24 h because of a lack of connection (when enabled) on the display appears the indication:

Console		8
BAD Link	Mem	24H

Or if the device in the meanwhile is starting connecting to the the central unit:

Console		8
Link OK	Mem	24H

The devices that can be activated on the bus 485 are:

- Console

- Inserter 1, 2, 3, and 4
- Radio 1 and 2 (DXR2/DXR1)
- Module Link

- with address 8. - with addresses 16.17.18 e 19.
- with addresses 32 e 33.
- with address 1.

Note: every missed connection on an enabled device on the bus 485 is indicated on the display through a message during the visualization of the status of the central unit, also when it doesn't generate an alarm 24h.

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3.2.20 Devices (CONNECTORS)

Devices connected on the bus 485 must be enabled to allow for operating on the central unit. Select the option :

Devices 485

And press # or •

With buttons \bigcirc / \bigcirc to select device to enable o desable and press # or - To modificate the configuration .

For example by selecting :

Key reader 1 16 Disabled

(Upper on the right appear physical ID on the network RS485)

Dial **#** and the display shows:

Key reader 1 16 Enabled

If enable a device not connected on the central unit the display signale:

Key reader 1 16 Link BAD

Devices that's possible to activate on the bus 485 are:

- Console

- Module Link

- Connector 1, 2, 3 e 4
- Radio 1 and 2 (DXR2/DXR1)
- with addresse 8.
 with addresses 16,17,18 e 19.
 with addresses 32 e 33.
 with addresse 1.

Note: every missed connection on an enabled device on the bus 485 is indicated on the display through a message during the visualization of the status of the central unit, also when it doesn't generate an alarm 24h.

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3.2.21 Connectors Activation

Devices connected on bus 485 must be configured to allow the manage on the central unit. To select the option :

Connector 1 16 NOT ACTIVE

And press (#) or (-)

With bottons \bigcirc / \bigcirc to select the device to enable or disable and press (#) or \bigcirc / \bigcirc to modify the configuration.

For example by selecting :

Connector 1 16 LINK OK

(Upper on the right appear physical ID on the network RS485)

Dial (#) and the display shows:

Connector 1 16 LINK BAD

If enable a device not connected on the central unit the display signale:

Consolle 8 Link BAD

When a device on bus 485 to manage generate an alarm 24h for failure connection (when enabled) on display appear the indication:

Conn	ecto	r 1	16
LINK	BAD	Mem.	24H

Or if the device dispositivo in the meantime starts to engage with the central unit :

Consolle		8
Link OK	Mem	24H

Devices that can be attivare sul bus485 are:

- Consolle
- Connector 1 , 2, 3 e 4
- Radio 1 and 2 (DXR2/DXR1)
- Module Link

with addresse 8.
with addresses 16,17,18 e 19.
with addresses 32 e 33.
with addresse 1.

Notes: every missed connection on an enabled device on the bus 485 is indicated on the display through a message during the visualization of the status of the central unit, also when it doesn't generate an alarm 24h.

To enable the connector 2 or next, to repeat the operation from the beginning of the page.



3.2.22 Devices 24 H 485

It is possible to compel the central computer to generate a cycle of alarm 24h when the communication on a device connected on the bus 485 is interrupted. To activate/disconnect this function select the buttons **v**/**a** in the setup menu the option:

24H 485 Device Disabled



24H Device 485 Enabled

3.2.23 Functioning OUT+INT

This option indicates to the central computer to manage the OUTPUT +INT in two ways: Activate/Disconnect the output on the command **ON-OFF** or on insertion / disarming on the central unit (**On for the insertion**)

Select the option:

OUT+INT. Setting ON if Armed

press the button report you can change the settings of the output in:

OUT+INT. Setting. ON/OF Command

The command ON/OFF that activates the output +INT of the central computer is accessible in the control menu and the voice menu both from local and from remote, only if you chose "COMMAND ON/OFF.



3.2.24 Forwarding SMS

If enabled, the combiner sends all the received SMS to the inserted number in the position number 1 of the phonebook.

Forwarding SMS Enabled

For status change, press the buttons $(\#)/(\downarrow)$

Forwarding	SMS
Disabled	

When disconnected, the combiner ignores all the received SMS. (For example when some inserters send the messages for the lack of credit).

3.2.25 GSM MODULE

It is possible to switch off the GSM module disconnecting all the phone communications and allowing to insert the phone SIM CARD in the connector on the circuit of the central unit.

Select the buttons \bigcirc / \bigcirc the option:

GSM Module On

Press **#** or **I** to modify the settings in:

GSM	Module	
Off		

With the module turned off, the SMS and the voice calls won't be allowed and the receiving calls won't be answered.

The Led of the GSM will be turned off when the module is turned off and it will be a signal on the display:

GSM OFF

Turn on the GSM module as soon as possible in order to restore the full operativity of the central unit .

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3.3 Info		5678#3
In the programming menu use t	he buttons 💌 🔼 until you vis	ualize:
	Disarmed	
	3-Info	
Press (#) or (I) or directly (SE	TUP CODE) # 3 in order to	visualize the informations of the
central computer:	HILTRON	
	8 Areas GSM	
Using the buttons 💌/ 🛋 is pos	ssible to scroll and visualize the oth	er information:
Firmware release :]
1	Rel. Firmware	
	01595W- X.XX.XX	
(with a turned on module only and r	registered SIM)	
	IMEI	
Status of nower supply:	123456789012345	
Status of power suppry.		
	Power Supply OK	
The indications of the status of the	power supply are:	1
-on the first line of the display		
Battery OK with the indication of the	e tension supplied.	
Absence Network		

- on the second line of display

Battery OK 13,5 v

Battery fault (when there is a low voltage or it requires a current overcharging).

Dead battery (the battery is not able to supply enough current to power the circuit).

3.4 Installation RESET

It is useful to end the telephone communications, forcing the reboot of the GSM module and of the central unit.

In the Programming menu, use the buttons $\bigcirc / \bigtriangleup$ until you visualize:



and dial the the button (#) or (\blacksquare) , or dial (SETUP CODE) (#)





ERASE Setup 3.5

In the Programming menu press \bigtriangledown (\checkmark)/(\blacktriangle) until you visualize:

Disarmed 5 - Default Setup

and press the button (#) or (=), or dial directly the SETUP code followed by (#) 5

The central computer requires to confirm to erase:

Are you sure? 7 = YES9 = NO

DEFAULT OK

Confirm to erase dialling (7) and the display will visualize for a moment:

With this operation you can download all the factory settings in the central computer.

If you dial the button (9), the resetting is cancelled.

3.6 **Test Call**

In the Programming menu , press \bigtriangledown / \checkmark until you visualize:

Ins. Disconnected 6

and dial the button (#) or (-) or dial (SETUP CODE)(#) (6)

On the display will appear :

Test Call

Dial the telephone number that you wish to call followed by $(\#)/(\downarrow)$

During the test call, it is not possible to communicate from the called phone but it is possible to send

DTMF tones. In order to end the phone call dial (ESC)







(5)(6)(7)(8)(#)(5)

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3.7 **Initial Message**

The initial message is a short audio message regitered by the user that can be useful to detect from what system is coming an alarm call.

In the Programming menu use the buttons \bigtriangledown in order to select:

Disarmed 7-Initial Msg.

and press the button (#) or (I) or dial (SETUP CODE)(#)(7)

The display will visalize

Initial	Message
* Play	# Rec

Keep pressed the button (#) in order to register a new message (maximum 10 seconds).

Dial (*) to listen again to the registered message.

3.8 SET UP button

If you don't remember the SET UP CODE it is possible to enter the programming menu by opening the lid of the central computer and press the SET UP button that is next to the tamper on the panel of the central computer for 15 seconds.

This allows to stop the cycles of alarm, disconnect the central computer and enter the programming menu, where you can modify the password for the login.





(5)(6)(7)(8)(#)

4 Commands

4.1 Enter the menu commands

When the system is connected or disconnected dial the user code (default (1)(2)(3)(4))

followed by () or (#) in order to enter the menu commands.

The first option of the menu that appears depends on the status of the central computer.

When the system is disconnected appears on the display:

31Y Serv.Prov.EN 7- Total Entrv

With the buttons \bigtriangledown \land it is possible to select the menu options and confirm them with \frown or (#)

Otherwise you can dial the USER CODE followed by (4) or (#) and dial the number of the option you need.

Le voci del menù disponibili sono:

The options of the menu are:

1-STOP CYCLE	Stops a probable alarm cycle and phone calls
2-USER CODE	Allows to modify the USER CODE.
3-Disable areas	Excludes or re-includes the zones to monitor.
7-Arm ALL Areas	Inserts the system totally.
8-Arm Partial A	Inserts the system with a scheme of entry A.
8-Arm Partial B	Inserts the system with a scheme of entry B.
0-Disarm	Deactivates the system

It is possible to carry out these operations from a remote in a telephone connection using the voice menu or for the operation of connection/disconnection using the keys on the inserters connected to the line DX bus.

4.2 Stop the CYCLE

It ends a probable cycle of calls in progress and cancels the signal to the sirens. Selct from the menu commands :

> Ins. Disconnected 1 Stop CYCLE

Confirm the comand by dialling (#) or (\clubsuit) .

On the display will appear for a while

COMMAND PERFORM.



(1)(2)(3)(4)(#)



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4.3 USER Code

Allows to modify the USER CODE that allows to enter the commands menu.

Select :

Disarmed 2-Call Test

Press (#) or (-) :

User Code

Disarmed

Dial the new user code made of 4 numbers. If the code is accepted on the display will appear the indication:

KEY CODE ERROR

3-Disable Areas

Disable Areas: >----< 24H:-

Otherwise will appear the message:

At the end, then, you can re-enter in the Commands Menu.

4.4 Disable Areas

Select in the menu commands:

and then confirm the choice with () or ()

The display will visualize:

In order to exclude a zone, dial the related number of the zone,

Press **9** in order to exclude the zone for 24 H.

For example, if you dial (3), (4) you can achieve:

Disable Areas:

>-2-4< 24H:S

The led in the zones 3, 4 and 24 H are flashing on the panel of the central computer in order to indicate the excluded zones. The opening of an excluded zone sets the alarm memory of the zone when the central computer is inserted, also if it doesn't generate any cycle of alarm; In this way it is possible to monitor an area without generating any false alarm. Instead, the zones that are not monitored, because of the partialisation do not set the alarm memory of an area.

XR800GSM

>--3--6--< 24H:S

Disable Areas:





1234#2



Programming

(1)(2)(3)(4)(#

4.5 Activation OUT

Select in the Programming menu:

Then dial (#) or

Ins. Disconnected 6 Activat. OUT

Press *W* when you want to activate the output (+12V present on the clamp +INT)or *()* if you want to disconnect it.

When the output is active, on the display will appear:

OUT: Active 7=ON 9=OFF

And during the visualization of the status of the central computer, it appears the indication ACTIVE OUTPUT cyclically. If you program the option Funz. OUT +INT of the SETUP, setting it on ON, the activation menu OUT is not available and on the clamp +INT will be present 12V when the central computer is inserted only.

4.6 Total Insertion

When the central computer is inserted, select in the commands menu:

$$(1)(2)(3)(4)(\#)(7)$$

And dial (#) or (\blacksquare) or dial the USER CODE (#)(7) as follows

If there are no obstacles (there are no immediate open zones not excluded) the central computer waits for the output and at the end activates the the protections against the intrusions on all the zones (but the excluded).



And at the end of the time of output:

31Y Voda IT Arm ALL Areas

An eventual delayed open zone (zone 1 and 2) doesn't prevent from inserting the alarms. But at the end of the time of output, if the zone continues to be to be open, it will generate a cycle of alarm.

Instead if there are immediate open zones and the command is not carried out, on the display will appear the indication.

31Y Serv.Prov.EN Disabled

That it alternates to the indication:

OPEN AREAS >- - 3 4 24H-<

Note: with an ongoing alarm 24h with the central computer disconnected, a probable input command (both total and partial) mutes the alarms but leaves the central computer disconnected.

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4.7 Partial Insertion A and Partial b

When the central computer is disconnected, select the commands menu:



and dial (#) or (-) or dial the USER CODE as follows (#)(8).

The command is executed if there are not immediate open zones and not excluded, involved in the insertion scheme, set up in the program phase.

During the time of output on the display will appear:

and at the end

Using the command :

31¥ Serv.Prov.EN 9 Part. Insert.B

You can command the insertion by using the scheme of partialization B.

In this case any immediate open zones and not excluded, involved into the scheme of partialization, impede to enable the central computer.

When the central computer is enabled, any command to enable it, doesn't have any effect and the central Remains enabled without modifying an eventual employed partialization.

4.8 Deactivation

When the central computer is connected, open the commands menu dialling the USER CODE and select the buttons v/ (the command:

Disarmed	
0=Disarm	



The central computer is disconnected, any alarm is mute and the waiting phone calls are cancelled.





(1)(2)(3)(4)(#)(8)(9)



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5 Voice Menu

The central units XR400GSM and XR800GSM are endowed of a menu with a voice guidance to be used both locally and from a remote controller through the GSM connection.

5.1 Access from the central panel

Press the button (#)

Once the voice interface is activated, on the displays will appear the indication :

25¥ Serv.Prov.EN Vocal Menu

The voice guide repeats:





Insert the user code (1 2 3 4)

After having dialled the USER CODE with the voice menu enabled, the central computer doesn't carry out the voice calls of alarm, but waits for the disconnection of the voice menu.

Instead if an alarm starts before you dial the USER CODE, the central computer closes the voice menu immediately and carries out the alarm calls.

If there is already a phone connection and on the display there is the signal **REMOTE MANAGEMENT**, it is not possible to access to the voice menu from the panel of the central computer.

The central computer doesn't respond to phone calls if you activated the voice menu from the panel of the central computer.

5.2 Access from remote (through GSM communication)

The access from remote can happen both calling the number of the central coputer directly and during an alarm cycle when the central computer clls a number from the phone book.

During an alarm cycle, when the call originates from the central, before asking the access code, the central carries out the initial message registered from the user.

Then a voice will lead you to send the request:



<INSERT CODE>

Send from the telephone the USER CODE with DTMF signals:

On the display of the central will appear this indication:

30Y Connected REMOTE CONNECITON



5.3 Leading voice

Once you access the voice menu, the leading voice provides you with the indications of the status of the central:

<Alarm system>, or <Alarm 24h> if the central is carrying out an alarm.



< System disconnected> or <System enabled totally> or <System enabled partially A> or <System enabled partially B>



<Network OK> or <Absence of network>

The leading voice lists the available options:



<Press 0 to disconnect > (only with the central connected) <Press 1 to stop the cycle> <Press 2 to activate the alarm memory> <Press 3 to exclude the zones> <Press 4 for open zones> <Press 5 to listen to environment sounds > (during the remote connection only) <Press 6 to activate the output > (with the output + INT programmed for the command functioning), <Press 7 to enable the central totally 8 for partial A or 9 for partial B>, (with the central disconnected only).

Press one the indicated buttons to access the related function.

If you don't send commands from the console or from the remote telephone, the menu switches off and the voice indications end.



5.3.1 Commands of the voice Menu

0-DISCONNECT

This command is listed when the central is connected only and it is useful to disconnect the central. After the execution of the command the voice guide indicates a new status of the central **System disconnected>** and restarts listing the options from the voice menu.

1-STOP CYCLE

The command **STOP CYCLE** ends every eventual ongoing cycle of alarm, it turns off the sirens and doesn't carry out more calls of alarm.

Once the command is executed the voice guide continues to indicate the available options.

2-ALARM MEMORY

It communicates to the user what are the zones that were memorized because there was an alarm during the last connection of the central. The message is like this:

The message is like u



< There are no zones with alarms> when the memory is empty.

Or:



< The zones with alarm are: zone 1, zone 4...zone 24 hours> With the list of all the areas inserted in the alarm memory.

At the end, the leading voice restarts to indicate the available options.

3 - EXCLUSIONS OF THE ZONES

Dial 3 to access to the menu of exclusion of the zones : the leading voice indicates: **There are no excluded zones>** or **The excluded zones are: zone 2,... zone 24 hours>** with the list \ of the excluded zones.



<Dial the number of the zone, press 9 for 24 hours or press asterisk for the former menu>.

Press the number of a zone in order to modify it (ex. 4) and the leading voice continues with:



The leading voice restarts then to repeat the status of the excluded zones and waits you to dial 🔅 in order to come back to the main menu

4 - OPEN ZONES

Dial 4 in order to listen to the list of the zones that result to be open.

This command results useful during the remote connection, when it is not possible to visualize the panel of the central with the led and the display that signal the open zones.



<There are no open zones> or <The open zones are: zone 4, zone 24 hours>

At the end the leading voice restarts to indicate the options of the main menu.

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5 - LISTENING ENVIRONMENT

Listening environment is allowed during the phone connection only. Dial 5 to activate it and (\mathbf{x}) to close it.

If you wish to extend the duration of listening for more than a minute, you'll need to dial any button (*) to extend the duration of listening for another minute.

If you dial (*) the listening stops and you listen to the leading voice again listing all the possible commands.

If you don't dial and press any button for more than a minute, the phone call ends.

6 - ACTIVATING OUTPUT

This command is available only if you program the output +INT to function on the command ON/OFF.

Dialling **6** the leading voice indicates:



Or



Activating the output, it appears a voltage of 12 V on the clamp +INT of the central. At the end the leading voice restarts to indicate the status of the central and lists the options available in the voice menu.

7 - TOTAL INSERTION

This command is available when the central is disconnected only.

Dialling T the central tries to execute the command and the voice guide restarts the voice menu that indicates



<System connected totally> if the central accepts the command or <System disconected> in case there was no execution of command due to an immediate open zone and not excluded that impedes the insertion of the system.

8-PARTIAL INSERTION A

Also this command is available when the central is disconnected only.

Dialling (8) you command to the central to insert the system according to the scheme of partialization A. The voice guide restarts to indicate the status of the central with



<System connected partial A> if the command is accepted otherwise with <System disconnected > if the command is not executed. If the command fails, you'll need to verify that the immediate zones included in the scheme of partialization aren't open, impeding, thus, the connection of the system.

9 - PARTIAL INSERTION B

This command, similar to the previous, is available when the central is disconneted only. Dial (9) to command to the central the partial insertion B.

If the command is followed by the leading voice, it indicates the new status of the central:



<System connected partial B>.

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6 Use of the Central Unit

6.1 - Description of the panel





2 LED "POWER" On Flashing

Off

- 3 LED "EXIT" On Flashing Off
- LED "ALARM" On Flashing
- **6** Passive infrared detector
- **6** LED "MEMORY " Flashing

LED "STATUS"

On Slow flashing Fast flashing

BLED "GSM" A fast flashing every 3 seconds Other flashings Listening messages and records

Presence line voltage and battery OK Absence line voltage / error battery Absence power supply

Installation disconnected Timing exit download Installation connected

Installation on alert Timing entry download after detection on delayed zone.

When detect a presence the backlight of keyboard and display are on and - if programmed - allerts the 1 zone.

Alarm memory activated

Operative Central unit Module GSM in activity Remote Control

Module GSM recorded on the network GSM Activity

LEDs to control the status (4 for XR400GSM), (8 forXR800GSM) zones and 24h On Opened Zone

Off A fast flashing every second On with a fast disconnection every sec. Flashing(during displaying,memory)

Microphone

Alphanumeric Command keyboard

Opened Zone Closed Zone Excluded Zone Excluded and Opened Zone Alarm Memory

Listening environment



6.2 Reports on display

During the normal functioning of the central, it provides some information on the display of the panel and of the consolle related to the status of the system, and the GSM Module.

GSM MODULE

On the first line of the display it will appear the information related to the GSM connection like this:

25¥ Serv.Prov.EN

The number next to the flashing symbol of the antenna represents the intensity of the signal from 0 (min) to 31 (max), followed by the indication of the service provider the system is connected.

Other indication related to the GSM Module can be: GSM OFF: the module is off – See the programming menu , 2 – setup, GSM Module

	(paragraph 3.3.23)
INIT GSM:	when the module is activated REGISTRATION: waiting for the the
	confirm of the service provider of the registration of the SIM card
REGISTRATION DENIED	the service provider denies the registration on the SIM card
SEND SMS.	when the module conde SMS
CALL:	during an attempt of phone call.
CONNECTED:	ongoing phone connection. OCCUPIED : the called number is occupied.
CALL FAILED:	the called number refused the connection.
CALL ENDED:	the phone connection is interrupted.
INSERT SIM:	SIM card missing.
SIM WITH THE PIN:	you need to cancel the PIN code from the SIM card using a mobile
phone.	
SI M WITH PUK:	the SIM card requires the PUK code. Use a mobile phone.
SIM ERROR:	Error during the communication with the SIM card.
GST FRROR XX	Error of the GSM module during the initialization. Check the antenna, the
	SIM card and the remaining credit Restart the GSM module. If the
	problem persiste, contact the technical essistance
	problem persists, contact the technical assistance.
CME ERROR XX:	Error on the GSM net. Wait for a minute and restart the module. Try with
	an other service provider. If the problem persists, contact the technical
	assistance.

Power supply

Fuse 1 out of order: if the fuse is broken F1 in this case all the cabled zones are open and the external devices, including the console don't work. Absence of network: there is a lack of the power supply. Missing battery: battery is missing.

Battery out of order: the battery must be substituted.

Low battery: if the problem persists the battery must be substituted.

STATUS OF THE SYSTEM	
OPENZONES	On the second line of the display are indicated the open zones. The leds of the open zones on the panel of the central computer are turned on. Pay attention: the signal of the opening of the radio zones lasts 2 seconds.
MEMORY ZONE:	It was memorized at least one zone that generated an alarm (on the second line are indicated the numbers of the zones of the memory and of the 24h). If you keep pressed button 😿 on the panel, the leds of the memory zones will flash.
-24H NOTACTIVATED:	the line 24h it was never closed since when it was resetted or it was feeded the central computer. To close the the line 24h, the tamper of the central and of the console and the protection 24h was re-
OUTPUT ENTRY	The ongoing time of output Time of entry ongoing. Opening of a delayed zone wen the control is optimated before that a cicle of a larm is generated
OUTPUTACTIVE	On the clamp +INT of the central are persent +12v because is an effect of the command of the activated output.
TOTALLY INSERTED SYSTEM: P-AINSERTED SYSTEM: P-BINSERTED SYSTEM: ALARM 24H TOTALALARM ALARM P-A ALARM P-B	Sytem inserted totally. System inserted with a scheme of patialization A. System inserted with scheme of partialization B. Cicle of alarm 24 h ongoing. Alarm with a cantral inserted in a total way. Alarm with the system inserted in a partial way A. Alarm with a system inserted in a partial way B.
DEVICES 485 AND RADIO	
RADIO ZONE BATTERY	Indicates that there are batteries on the radio devices to be substituted. On the second line of the display , it will appear the status of the batteries for each radio zone : L if it is charging H if it is charged - if the zone is a cabled one.
RADIO ZONE BATTERY MEM 24H ZONE RF	Indicates that there are batteries on the radio devices to be substituted. On the second line of the display , it will appear the status of the batteries for each radio zone : L if it is charging H if it is charged - if the zone is a cabled one. The second line reports what radio zones activated the the memory for the opening of the container.
RADIO ZONE BATTERY MEM 24H ZONE RF MEMORY 24H SIRENS RF	Indicates that there are batteries on the radio devices to be substituted. On the second line of the display , it will appear the status of the batteries for each radio zone : L if it is charging H if it is charged - if the zone is a cabled one. The second line reports what radio zones activated the the memory for the opening of the container. Indicates that the radio sirens, generated an alarm of 24 H in order to open a container.
RADIO ZONE BATTERY MEM 24H ZONE RF MEMORY 24H SIRENS RF INSERTER 2 17 LINK BAD	Indicates that there are batteries on the radio devices to be substituted. On the second line of the display , it will appear the status of the batteries for each radio zone : L if it is charging H if it is charged - if the zone is a cabled one. The second line reports what radio zones activated the the memory for the opening of the container. Indicates that the radio sirens, generated an alarm of 24 H in order to open a container. On the first line of the display is indicated the device with its address that doesn't communicate with the central correctly.
RADIO ZONE BATTERY MEM 24H ZONE RF MEMORY 24H SIRENS RF INSERTER 2 17 LINK BAD REMOTE CONSOLLE Tamper Open Mem	Indicates that there are batteries on the radio devices to be substituted. On the second line of the display , it will appear the status of the batteries for each radio zone : L if its charged - if the zone is a cabled one. The second line reports what radio zones activated the the memory for the opening of the container. Indicates that the radio sirens, generated an alarm of 24 H in order to open a container. On the first line of the display is indicated the device with its address that doesn't communicate with the central correctly. Indicates that the tamper of the remote consolle is open and it generated a cicle of alarm 24H.
RADIO ZONE BATTERY MEM 24H ZONE RF MEMORY 24H SIRENS RF INSERTER 2 17 LINK BAD REMOTE CONSOLLE Tamper Open Mem REMOTE CONSOLLE Tamper Close Mem	Indicates that there are batteries on the radio devices to be substituted. On the second line of the display , it will appear the status of the batteries for each radio zone : L if it is charging H if it is charged - if the zone is a cabled one. The second line reports what radio zones activated the the memory for the opening of the container. Indicates that the radio sirens, generated an alarm of 24 H in order to open a container. On the first line of the display is indicated the device with its address that doesn't communicate with the central correctly. Indicates that the tamper of the remote consolle is open and it generated a cicle of alarm 24H. indicates that the tamper of the remote consolle is now closed, and Mem it generated a cicle of alarm 24H. The reset of this memory is carried out by inserting the system.

The reported information are displayed on the panel of the central and of a probabe consolle in addition and are repeated cyclically with an authomatic timing.

Using the buttons \bigcirc / \bigcirc it is possible let them scroll rapidly.

6.3 - Commands

security

1234#7

6.3.1 - INSERTING THE SYSTEM

From the panel of the central it is necessary to verify that the immediate zones aren't open: check that the related LEDs aren't active and eventually close doors and windows or leave the environments to be sorveilled by the sensor that keep the zone in alarm. The opening of the delayed xzone doesn't avoid to insert the central , but it is necessary that at the end of the time of programmed output, the delayed line will be closed again. It's possible to exclude invidually the zones (except the 24h) to submit to monitoring by pressing for a few seconds the number of the zone to exclude (or to include again).

When commands the central unit from panel, from console DX22, from connector DX100 / DX300 or from connecting call, it's possible to select a partial insertion that indicates the esxclusion of monitoring f some zones, like programmed.

From panel or from console : dial the USER code and to select the menu :

Disarmed 7-Arm ALL Areas

And dial 🕢 or (#) or dial (7) after the code

On the display if the command is allowed appear the writing :

Followed by indication:

o

The insertion can be done also in the partial mode, according one of the two partialisation patterns configured at programming. To select then in the commands menu one of the options:

Ins. Desabled 9 Part. Ins. B

And dial (m) or (m) or, as usual, dial the USER code followed by (m) and (m) or (m).



To connect the installation from the panel of the central unit, by using the guide from voice menu,

dial (#) to activate the guide and, following the indications to insert the code and then dial (7) for total connection,

Or (8) to connect the partial A installation.

Or (9) to connect the partial B installation. .

To command the central unit from remote control through telephone network,one time activated the connection with the central unit , it's possible to follow the voice guide similar to what happen from the panel with the voice menu :

USER code (#), (7) to total connection, or (8), to partial A connection, or (9)

to partial B connection.

To connect the central unit with the **PXR readers or through command KB devices**, to verificate the LED placed on the device :

The RED LED on indicates that an immediate zone not excluded is opened and the connection will not executed if the zone takes place will not executed if the zone takes place of the partialisation pattern configurated for KEY entry.

The RED LED that off for a moment every second, indicates that a delayed zone (1 or 2) is opened ant that the connection command will be executed; if the zone will be opened at the end of the exit time, will be generated a round of alarm.

On command executed the two LEDs red and green flashing at the same time for all the the exit time, and mat the end off. If however the command doesn't executed, the two LED emit tha fast flashing for a few moments of seconds and at the end the green LED stays on.

The meaning of LED of conenctor is indicated in the following table:

	ON	OFF	1 FLASHING TO SECOND	1 FLASHING INVERSE TO SECOND	FLASHING	FAST FLASHING
GREEN LED	Installation desabled and ready	Enabled installation	Excluded zones to desabled installation			
RED LED	Immediate zone opened to desabled central unit	Zone chiuse		Opened delayed zone 24H opened line	Alarm Memory to desabled central unit	
GREEN LED and RED					Alarm current or exit time	Command of connection not executed

For the connection of the central unit through **Dx100** readers with the choice from time to time of the favorite partialisation pattern, refers to section "ELECTRONIC KEY DX100"

NOTE: When the central unit is on alert 24h, the connection command off the sirens et cancel sirene ethe round of the GSM calls,but doesn't connect the installation; to connect the burglar alarm system it is necessary then to repeat the command, after restored the 24H zone.



6.3.2 Disconnection

From the panel or from console it's necessary dial the USER code, to select the menu :



or dial the USER code **#**0

During this operation, the ventual flashing of the yellow LED, indicates that is current the delay of entry after the opening of a delayed zone and that doesn't disconnect in the maximal programmed time, will be activated a round of alarm.

The LED "ALARM MEMORY " flashing if verificate a round of alarm during the time of monitoring of the central unit.

The disconnection of the central unit it's possible also from voice menu with access from the panel of the central or from remote through telephone connection.Inboth cases, after dial user code, dial **()** to disconnection.

6.3.3 Stop alarm

In the case of alarm it's possible to stop the acoustic signal and to stop the calls: from the panel of the central unit or from a console dial the COMMANDS and to select the menu :

Tot A	larm
1-Stop	ROUND

Confirm with the button (#) or (\blacksquare) .

This command doesn't connect the burglar alarm system.

The command of connection/disconnection from the panel and from external command devices (PX, SK, KB) stops the round of alarm and disconnect the central unit. (In the case of alarm 24h at central disconnected, the connection command resets signals, but doesn't connect the central unit .



6.3.4 Activation exit

When the exit is programmed to operating to "Command ON/OFF" (see the paragraph 3.3.21) it's possible to command the exit from the panel and from the console or from the telephone.

Dial on thje panel of the central unit the USER code followed by **#**6 :

On the display appear:

OUT: Disabled 7 =ON 9=OFF

To modificate the state of exit dial 7 and on the display appear:

OUT: Di	sabled
7 = ON	9 = 0 F F

Dial now (9) to come back to initial condition.

This operation can be executed also through Voice menu .

Dial **#** to activate the voice menu and after the USER code, **#**, **6**.

Dial 7 to activate the exit ,or 9 to disactivate.

Similar connecting through phone line after inserted the commands code dial on the phone pad

(6) to "activation exit" and to execute the voice indications.

NOTE: if you program "Function OUT + INT" = "ON on connected" the exit + INT indicates the status conencted/disconnected of the central unit and cannot be commanded independently.

6.4 Operating of the zones

The entry zones can be wired type (logic or balanced) or radio.

A line of entry configured like logic is defined alarmed when doesn't closed to GND that is when the sensor placed on the line not short-circuited the block terminal of entry of the zone (Z3 for example) with one of the terminal blocks common GND.

In the case of programmed like balanced, it's resulte not alarmed when the impedance existant between terminal blocks of entry and GND is near about 3300 ohm that is when the sensor placed on the lines stops the circuit between the block terminal of the zone and the terminal block GND through a resistance closing of about 3300 ohm.

Every impedance variation both versus values highest (opened line for example to opening of the contact of the sensor) or versus inferior values (line in corto for example to manipulation on the same line) they do alarm the zone on the central unit. At the end of the balanced line (in correspondence of the sensor further from the central unit) it's necessary to mount a resistance in series of about 3300 ohm.

Also the line 24h can be configured locùgical or balanced. It's not possible instead to program it like only radio zone, and the devices radio installed on the central unit acivate the zone 24h in addition to devices placed on the lineand to the tamper of the central unit and of the possible console.

The configured zones to receive a radio sensor are opened for about 2 seconds after the sensor transmitted the entry signal, then the zone is again closed, also the sensor has not provided any signs of closing zone.

The LED placed on the panel on to signal the opening of a zone.

The activation of a zone that is excluded or not included in the current partialisation (normally with the LED that falshing every second short) reverse the type of flashing with the LED that is on and off about every second short.

When the central unit is disconnected the presence of alarmed zones is signalled on the connecotors or on command devices (for example DX100) with the red LED on (immediate zones) or with red LED that off for a moment every second (delayed zones), while the presence of excluded zones is signalled with a short flashing of the green LED about every second.

6.4.1 Zone 1 and 2 delayed

To connected installation, the activation of the zone 1 and 2 not excluded, starts a timer configured with the time of entry programmed.

The closing of the zone doesn't stop the timing at the end of that the central unit starts the alarm signals (sirens, messages SMS and calls phone).

On the zone 1 it's possible to combine the sensor placed on the panel of the central unit sul pannel, in addition to the sensors placed on the line .

Si consiglia to use the delayed zones to magnetic contacts placed on the entrance doors. The time of entrance enables to access from theese entry and to achieve the central unit or command devices, to disconnect the installation.

Using an electric key type DXK or KEY with connector DX200 or DX300 placed away from the protected zones or a remote control DXR4, it is advisable to program the time of entry at the minimum, because it's possible disconnect the installation without to alarm some zone.



6.4.2 Immediate zones

When the installation is connected ,the activation of a immediate zone (3 e 4) starts immediately a round of alarm of the central unit .

6.4.3 Zone 24h

When the installation is disconnected the activation of the line 24h on this wired line, for openging of tamper of the central unit, of the console, or to signalisation of a radio detector, starts a round of alarm of the duration of 3 minutes.

When the installation is connected, the alarm duration is instead equal to the time configured like alarm duration.

The tamper placed on radio devices, activate the zone 24h in addition to the wired line and to the tamper of the central unit and the console. The zone radio that send a signal of tamper opening, is memorized from the central unit that visualize the message "MEM 24H ZONE RF" with the number indication of zones memorized .

NOTE: If the at the ignition of installation the zone 24h is opened (line 24h and tamper of the central unit opened) the zone 24h doesn't produce a round of alarm on the central, but prevent the connection of the entral unit.

On the display appear the indication :

H24 DISABLED

Only after the first closing of the line 24h of the tamper of the central unit and of console. The central is ready to generate a round of alarm on opening of the zone 24h.

6.4.4 Alarm memory

The opening of the zones with central unit connected and the opening of the line 24h and of the tamper with central unit connected or disconnected, more than to create a round of alarm, activate also the alarm memory, signaled from the flashing of the mem. LED placed on the panel of the central unit, more than from flashing of the red LED on the connectors of the elctronic keys.

On the display is activated the visualization cyclical of the ZONES MEMORY, with the indication of the number of the zones memorized.

In the case of zone 24H radio is activated, the signalisation of MEM 24H ZONES RF> con indicazione del number of the radio zone on which the memory is activated .

The alarm memory is canceled to every connection of the central unit not generating some alarm.

NOTE : The escluded zones excluded that opens to the central unit connected, activate the alarm memory, while don't activate the zones not connected as a consequence of partialisation.

6.4.5 Exclusion zones

It's possible to exclude one o more zones from the monitoring of the central unit PROTEC4GSM. With central unit connected to need access to Commands Menu

(Dialing the USER code followed by **#** 3) and to dial the correspondent button to the zone to exclude/include again.

To modificate the status of the zone 24h to utilise the button (9).

The same operation it's possible to effectuated from the panel of the central without dial some code, with installation disconnected, hold for two about two seconds the corrispondent button to the zone to exclude. In this modality isn't possible to esclude the zone 24h.

The exclution of a zone that is operated in the voice menu both from the panel of the central unit and from the connection and from connection remote phone.

To access to Voice Menu dialing the COMMANDS code and to select the otpion 4 following the istructions of the voice guide.



6.5 Operating of the comunication GSM.

On the first line of display of the central unit are visualized the indications on the status of the GSM dial

If the display visualize:

Insert SIM Disarmed

It's necessary introduce a SIM card phone.

To disconnect always the supply of the central unit before connect a SIM card, or off the GSM module with option "MODULE GSM=OFF from SETUP menu" to prevent to damage it and to cancel from the SIM any lock codes (PIN or PUK) by using a common mobile phone.

When the central unit is connected to the network GSM the display visualize :

Serv.Prov. EN Disarmed

With the indication of service provider and the power of the signale received (max 31).

The red LED "GSM" signale the operativity of GSM module with a short flashing every about 3 seconds, to indicate that the module GSM is registered on the network GSM and ready to receive or execute calls.

When dial receives a call on the display appear, the central alerts and, the module GSM send an SMS to first number of the phone book of type:

Installation on alert Network OK Alarm 24H Alarm memory zone 2,4

On display of the central is indicated for a moment :

28¥ Sending SMS Ins ALL AREAS

Finished sending SMS, the central starts the voice call and on the display appear the indication:

31¥ Calling...

When the user replies , the central unit reproduce the initial message registered before ,followe by the indication :

<Installation on alert>, or <Alarm 24 hours> or <Installation total connected > or < Installation disconnected> Network OK (or Absence network).

followed by <Insert Code>

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During the connection on the display appear the indication :

Connected....

and sendign the USER code with tones DTMF:

Connected.... Remote Organizer



6.5.1 Remote Control

During a phone connection, it's possible to command the central unit sending the tones DTMF from the phone pad. The activition of the remote control can occur or during a call alarm of the central unit or calling directly the number of the SIM of the central unit.

To the demand of <Insert code> dial the USER code.

At this time or from the remote phone it's possible to listen the guide voice with the messages similar to those of voice menu, that is :

- < Press 0 to disconnect > (only with central unit connected)
- < Press 1 to STOP cycle >,
- < Press 2 to alarm memory >,
- < Press 3 to exclusion zones >,
- < Press 4 to open zones >,
- < Press 5 to environment listening >, (only during a remote connection)
- < Press 6 to exit activation > (solo con uscita +INT programmata per il funzionamento a comando),
- < Press 7 to total connection, 8 for A partial or 9 for B partial >, (only with central unit disconnected).

For the description of theese commands see the paragraph 5.3 Voice Guide vocale and following.

6.5.2 Sending messages SMS

Enabling the option <Forward SMS> (par.3.3.22) all the messages sms received on the SIM of the central are sent again to the mobile inserted in the address book to the NUMBER 1 : in this way it's possible to control possible messages received on the SIM introduced in the central with possibles comunications sent from the service provider.

6.5.3 Question residual credit

If you wish to question the telephone operator to know the residual credit (if planned by network operator) it's possible to send to the SIM of the central unit a message composed according with rules of the same telephone operator preceded from the text <SMS> and from the telephone number of the operator.

NOTE : To consult your operator to know the modalities of request of the residual credit when enable.

In this way the message received from the central is sent to the telephone operator that will answer with a new message .

The first message received within 50 seconds, is sent again to the user who made the request.

For example for telephone operator to send an SMS with the message <SMS **** residual credit sim> to the number of the SIM introduced in the central unit and to wait an SMS reply.

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6.6 ELECTRONIC KEY DX100

With the readers DX100 it's possible to read the PX keys and to execute following operations:

- To connect the installation into modality TOTAL, PARTIAL A and PARTIAL B.
- Disconnect the installation.
- To read or to write new PX keys.

Also through the two LED it's possible :

- To visualize the modality with to connect the installation.
- To visualize the status of the installation :
 - Disconnected /Connected and visualization connection type
 - Temporization action of EXIT during the connection.
 - Status alarm installation.
 - Status of the alarm memory installation
 - Presence open zones .
 - Presence of excluded zones.
 - Connection error or configuration

TABELLA MODALITA' SEGNALAZIONI LED



6.6.1 KEY USE

RECOGNITION KEY

The recognition visualized through the led: To approach the PX key to the reader Dx100 and to wait - Valid key = Contemporary FAST flashing Ealer Key = Alternate FAST flashing

- False Key = Alternate FAST flashing



• HILTCON security

Use of the central unit

TOTAL CONNECTION

1 - To approach the key to the reader

2 - When the led visualize the correct recognition (Valid Key) to get away the key to connect the installation. The Led will visualize the temporisation of EXIT.

	Exit Time	
Green Led		
Red Led		
C) 500) ms

Installation Disconnected

500ms

PARTIAL A / B CONNECTION

1 - To approach the key to the reader and to wait the visualization of correct recognition. Led will visualize in sequence the differents ways to connect:

2 - To get away the key when the led indicate the modality of conenction you want .

	Partial A
Green Led flashes	
Red Led	
	0 500ms
	Partial B
Green Led	
Red Led flashes	
	0 500ms
	Total
Green Led flashes	

'n

Green Led

Red I ed

Red Led flashes

DISCONNECTION

- 1 To approach the key to the reader
- 2 When the led visualize the correct recognition
- (Valid Key) get away the key to disconnect the installation.

VISUALIZATION CONNECTION TYPE

- When the installation is connected to approach the key to the reader and to wait before the recognition and then the visualization of the current modality of connection.

- The led will visualize the way to current connection :

NOTE. The visualization stay active for all the time of the presence of the key.

When gets away the key, the central unit isn't disconnected.



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6.6.2 Others signalisations on the connector

Alarm installation:

Alarm memory to the central unit disconnected :

Immediate opened zones to the central unit disconnected:

Delayed opened zones to the central unit disconnected:

Excluded zones :

ERROR CONNECTIONS

Signalisation for error connection of the reader to the "DX bus"

Red Led	flashing		
		0	1 se

Fast

flash

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ADDRESSE INCORRECT

Signalisation for incorrect configuration of the addresse of the reader on the "DX bus"

NOTE The central unit use until 4 readers that must be configured singulary through the dip-sw with one of the following addresses:

WARNING -Make sure not utilise the same addresse on more devices.





GroonLod

Green Led

Red Led









1 sec.



Green Led Red Led

Green Led

Green Led Red Led

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Absence Link

Addresse Error

1 sec.

c.



6.7 Proximity reader DX300

With the readers DX300 it's possible to read the keys "KEY" and to execute following operations:

- Connect installation in the TOTAL, PARTIAL A and PARTIAL B mode.
- Diconnect installation.
- To read or to write new keys "KEY"

Also through the display of 7 segments it's possible:

- To visualize the modality with to connect the installation.
- -To visualize the status of installation :
- Connected / Disconnected;
- Alarm;
- Temporisation of exit ;
- Presence of opened zones ;
- Presence of excluded zones;
- To visualize connection or configuration errors

6.7.1 Signalisations on display connector

On the connector Dx300 display is provided the status of the central unit:

letter "d" - Installation disconnected/ flashing in the presence of opened zones.



2 alternate points in addition to the lettre "d" - Indicate that are registered in the alarm memory to the installation disconnected.



letter "E" -Installation disconnected with excluded zones. / Flashing in the presence of opened zones.



2 points alternative in addition to the letter "E" - Indicate that are registered zones in the alarm memory, with installation disconnected and excluded zones.

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WARNING

It's necessary to enable the readers before to write keys



672 Use of kev

Total mode connection

When the central unit is disconnected (<d> or <E> on display) to approach the key to the connector; the buzzer on the corrector emit a beep .

Get away the key from the connector: the buzzer of the connector emit three beep and the connector send the connection total command of the installation. If the command is executed on display is signalled the time of exit (segmentis that rotate) and in the end indicate the installation connected (<i>).

If the command doesn't executed on display continue to be signalled installation disconnected (<d> or <E>).

Connection in the Partial A or B mode

When the central unit is disconnected (<d> or <E> on display) to approach the key to the connector until to hear a beep. To leave the key near to the connector until to hear after few minutes thwo other beep, then get away the key. On display alternating in succession <a>, and <F>. Approache the key when on display appear <F> to connect the installation in the total mode, to approach the key when on display appear <a> to connect the installation in the mode partiaized A or to approach the key when appear to connect the installation in the mode partialised B. The buzzer emit another beep and the connector send the command of iuconnection to the central unit in the way selected.

If the command is executed the display of the connectorsognale before the exit time (segments that rotates) then <i>for installation connected

If the connector doesn't recognize the approach of no key after 15 seconds satops to alternate the symbols of three types of connection, emit two beep and doen't send any command to the central unit.

In case of absence of execution of the command the display of the connector shows again <E> or <d> to indicate installation disconnected with or without excluded zones.

6.7.3 Others signalisations on DX300

Connection absent

If stopscomunication with the central on display of the connector appear the animation :



Waiting connection

During the connection with the central on display appear for few moments an animation :





A connection happened on display is showed the status of the central unit.



Error addressing

If the central unit doesn't recognize the addresse configured on the connector or on the central unit doen't enabled the same connector between the devices 485, on display appear the animation :









Privacy mode

If you program on the central unit that the connector have to hide the informations (Setup->Privacy Connector = N), the display of the connector shows the flashing point down and doesn't signal opened or excluded zones or connected/disconnected installation.

Approach a key to the connector until to hear a beep then get away the key .

The connector starts to provide its signal on the status of the central unit for about 10 seconds.

During thees it's possible approach again the key to operate in the usual way .

If keeping the key near to the connector after listening the first beep, the connector doen't execute any command et after 10 seconds comes back to hide ots signals .

With the connector in the privacy mode the only signal a that appear on display are those of alarm and those of connection and disconnection (for about 10 seconds).

Acoustic intensity of beep

The connectors DX300 have the possibility to regulate the acoustic intensity of the signals on two levels, it's possible to select individually for every connector the acoustic level of beep. (Setup->Beep Connector = High or Low).

Beep of alarm

The DX 300 can be enabled on the central unit to activate the buzzer in the case of alarm

(Setup->Beep Alarm Connector =S)

This acoustic signalisation occurs always to the maximum intensity, also is programmed the low level for the beepon the connector.

WARNING

It's necessary to enable the readers before to write the keys

