RoHS COMPLIANT 2002/95/EC

4 security

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VOXOUT

TWO-WAY GSM DIALER WITH ENVIRONMENTAL LISTENING

INSTALLER'S MANUAL

ENGLESH

DESCRIPTION

Voxout is a two-way integrated dialer with keyboard, equipped with environmental listening and a simulated telephone line.

Its main features are:

. provider test/best gsm signal based on available cells
- credit exhaustion management, with voice alert and/or sms for low credit threshold (programmable threshold)
- sim expiration display (for operators who support the sms service)
- remote control with voice guidance
- local programming from keyboard
- remote programming via sms
- output enabling via ring with confirmation ring
- 5 selectable lines that can be freely programmed as inputs or outputs
- Double State Signal: vocal calls / sms on opening/restoring of the inputs
- 1 local input for reset of calls in progress
- 1 simulated PSTN line with which it is possible to make phonecalls with a standard touch-tone telephone, or connect the dialer to a wire telephone exchange.
- programmable CONTACT ID transmissions
- 12 user codes
- 8 programmable telephone numbers for voice calls and SMS
- 8 programmable telephone numbers for digital transmission of contact ID
- 200 programmable telephone numbers for the remote control function

- TECHNICAL INDICATIONS OF USING -

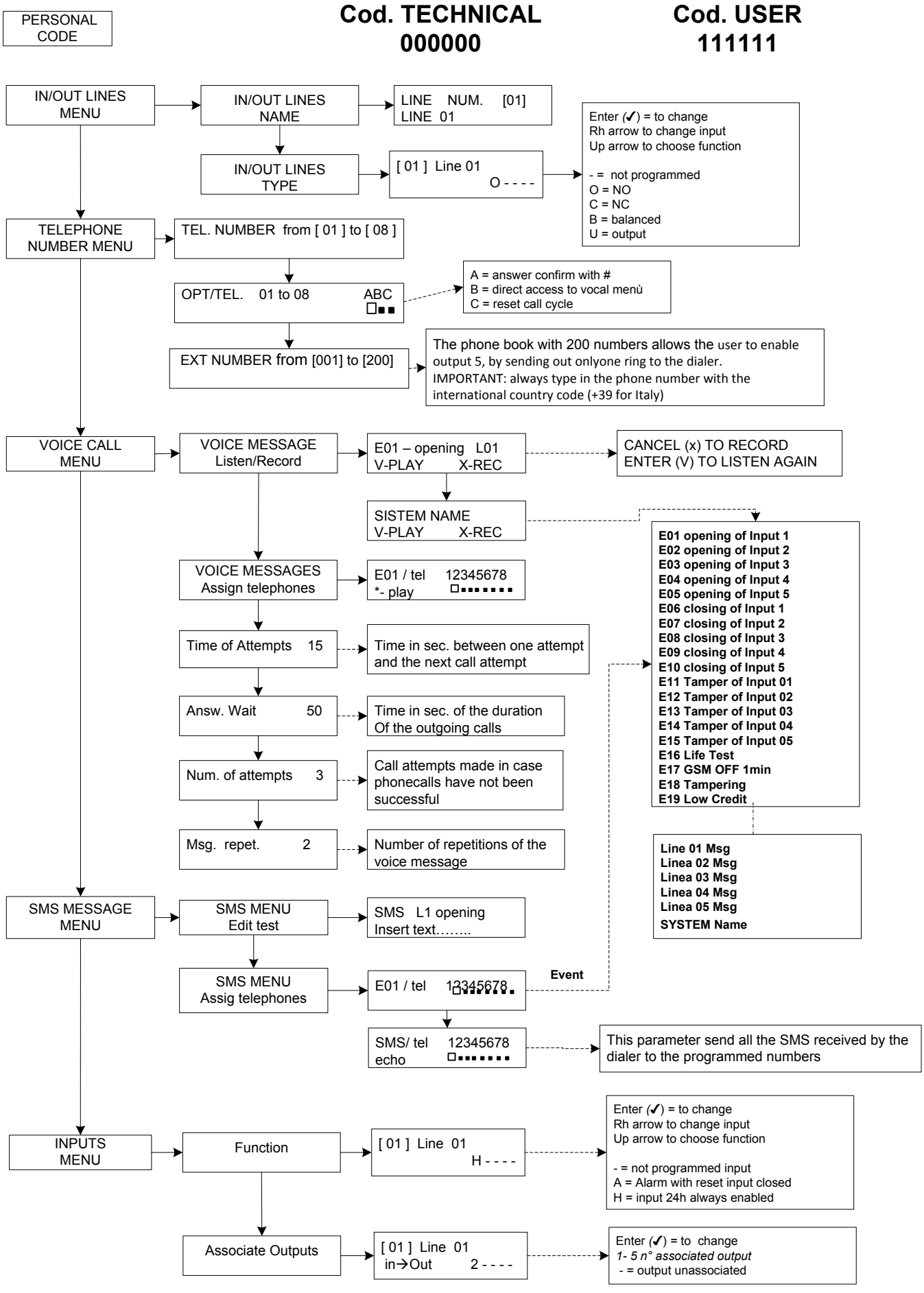
IMPORTANT: the equipment, if used like a device for transmission of alarms of a CIE, can be connected only if:

- the CIE complies to EN 50131-1 and EN 50131-3 (Grade 1)
- the terminals "1,2", connected to the outputs of a CIE, are programmed as "balanced inputs", and configured to send vocal calls/SMS for intrusion and power failure;
- the terminal "3" is configured like "output of type T" (tamper) and connected to an input always active controlled from the CIE;
- the terminal "4" is configured like "output of type G" (GSM failure) and connected to an input controlled form the CIE;
- the terminal "5" can be used with a CIE that has the function of "robbery" (in this case the terminal connected to an output of a CIE, must be progammed like "balanced input" and configured to send vocal calls/ SMS for robbery) or with a CIE that allows access at level 3 without the authorization of users at level 2.

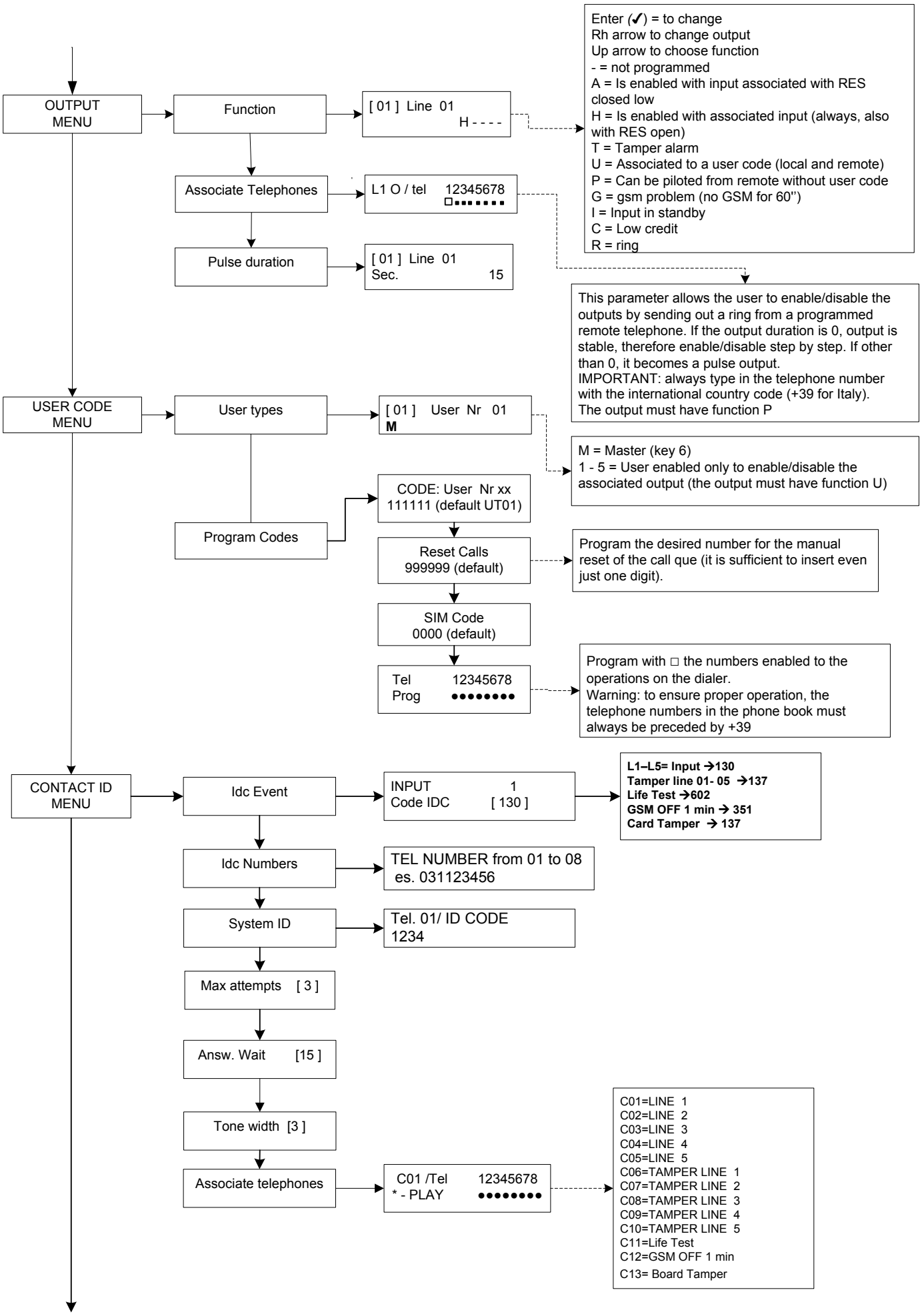
NOTE: for CIE with grade upper to 1 and/or when there are 2 or more inputs like robbery, the device of transmission of alarms can not be used (availability in inputs/outputs insufficient).

- INDICE -

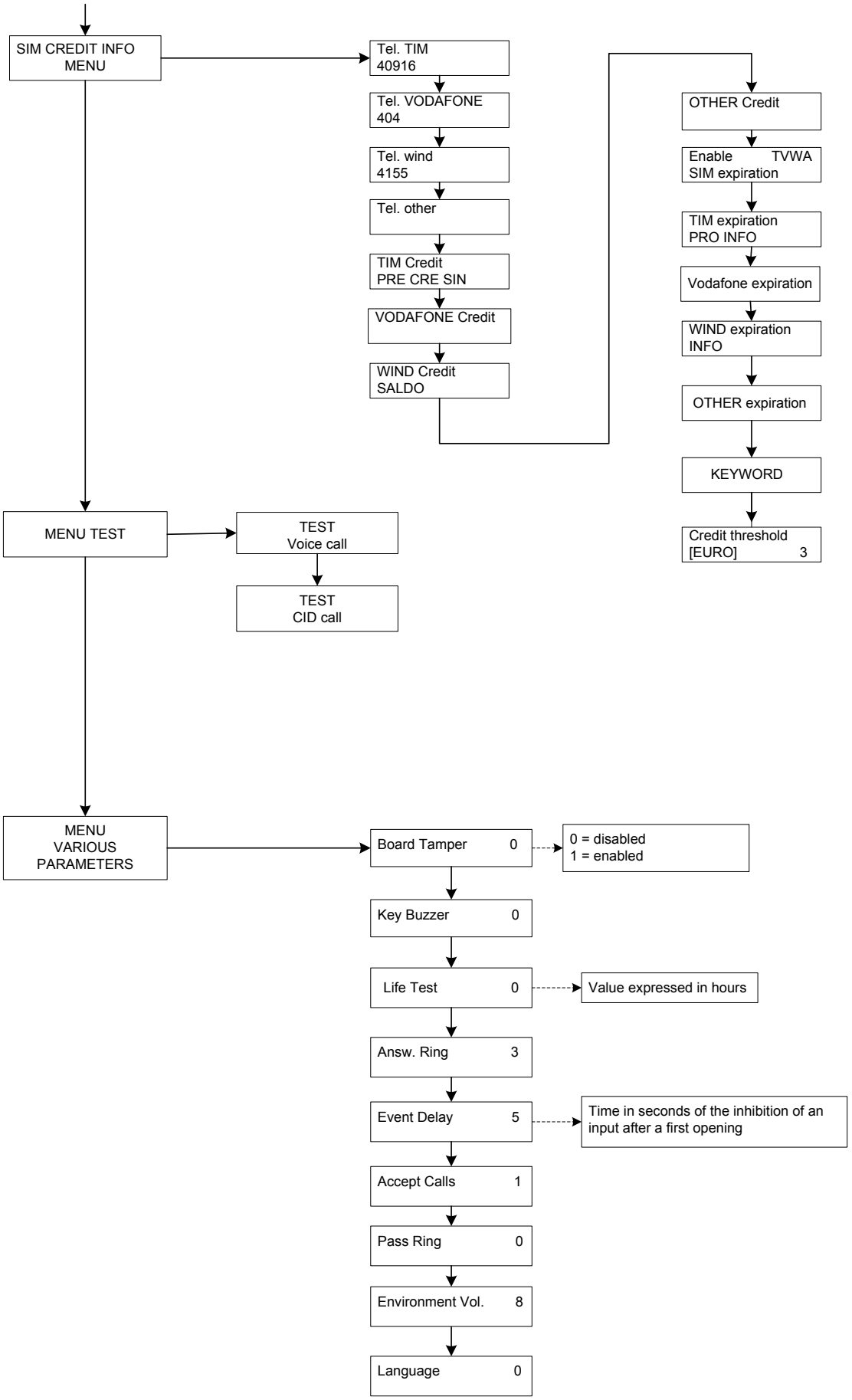
PROGRAMMING MENU FROM KEYBOARD - 1

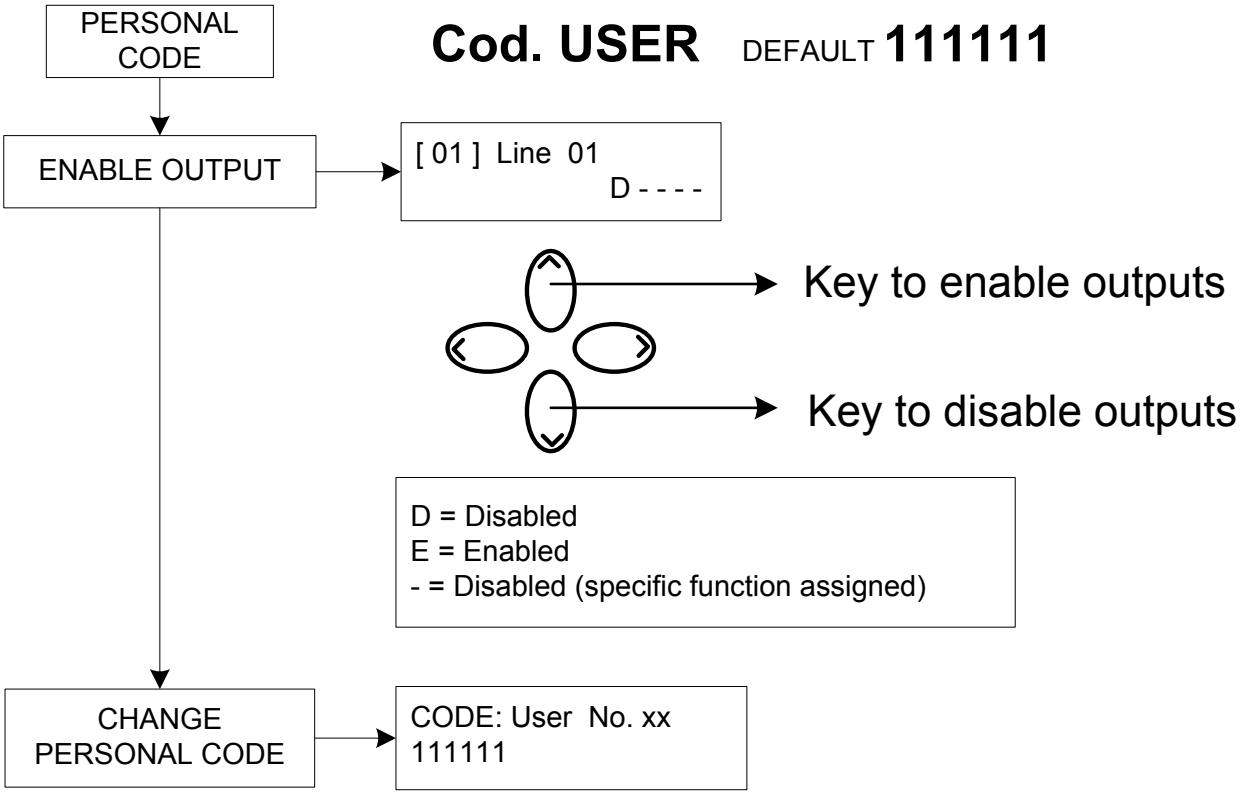


PROGRAMMING MENU FROM KEYBOARD - 2



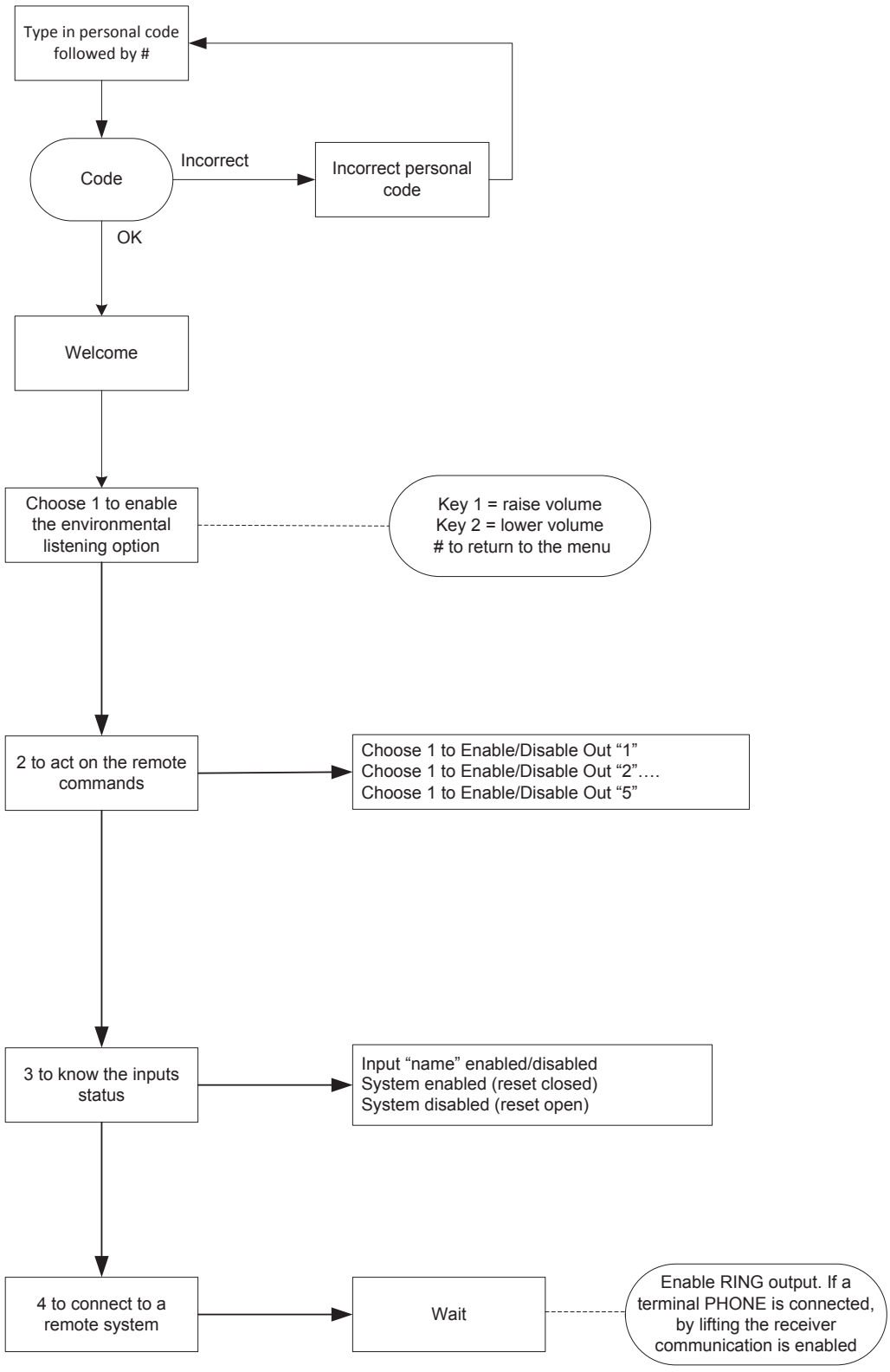
PROGRAMMING MENU FROM KEYBOARD - 3





Attention !

The functions "Medical Aid" (key "arrow left") and "Fire" (key "arrow right") are not covered from the EN 50136-2-1 and are not used from the dialler.
So the two keys are NOT used for these functions.

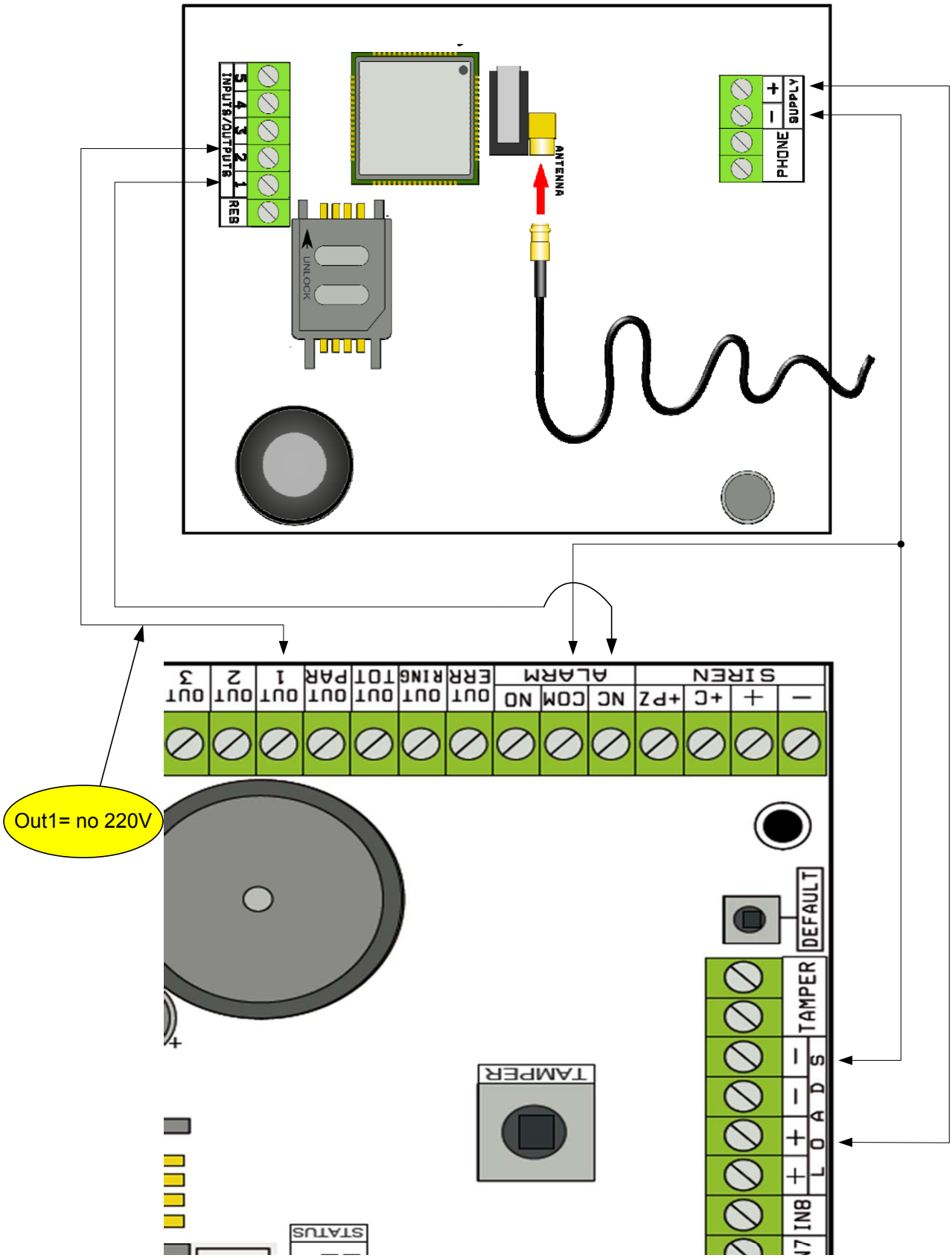


VOICE GUIDED MENU

The vocal menu is reachable by calling the dialler or when the dialler calls. It's not used for programming but only for remote management by the user.
When receiving a call, during the listening or at the end of the voal message, it's possible:

- **STOP THE CYCLE CALL WITH THE RESET CODE: by pressing the #, digit the code reset and confirm con # (es. #123#), the voice will say "cycle call terminated"**
- **ENTER IN THE VOCAL MENU:ENTRARE NEL MENU' VOCALE: by pressing the #, digit the user code and confirm con #. It will be possible to select one of the four voice of the vocal menu.**

CARD DESCRIPTION - EXAMPLE OF A CONNECTION TO AN EXCHANGE



Note: in the example shown in the figure, the dialer is powered by fixed charges from the exchange, the free exchange of the alarm relay is connected to input 1, the OPEN-COLLECTOR 1 output is configured as the absence of an electrical netwrok and is connected to input 2.

SUPPLY + - = power supply 13.8Vcc

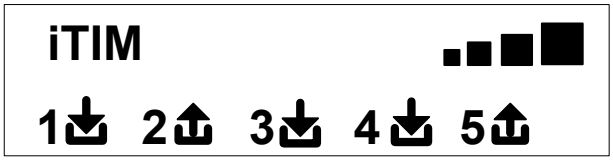
L 1-2-3-4-5 = Lines inputs / outputs **-- Configured like Inputs, refer to NEGATIVE -- Configured like outputs, they give a NEGATIVE when they are activated**

RES = reset of the calls in progress (OPEN TO RESET) **-- Referred to NEGATIVE --**

PHONE = emulation of a wired telephone line

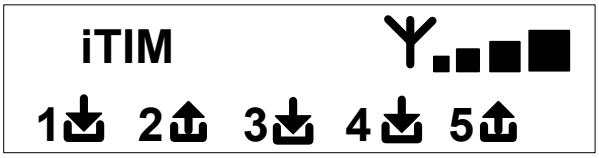
BEST PROVIDER TEST

Powering the dialer with an antenna wire inserted and without SIM, an analysis will be made of the signals and of the providers present on site, and the provider with the best signal will be indicated.
The display altenrates the 2 following screens.



SYMBOLS AND DISPLAY VIEWING IN STANDBY

Once you've defined the provider, remove power supply and insert the SIM in the dialer (the SIM is unlocked with the PIN number).
Power the system again, and wait for the signal and the mobile phone operator to appear on the display, as shown in the example of the following screen:



By pressing the CANC(X) key, it moves from standby screen to SIM credit/expiration screen
The value of credit is updated automatically every time that the dialler makes a call or sends a SMS.
It's possible to request the credit of the SIM also by pressing ENTER (✓) from this screen.

Input icon

Output icon

1 When flashing, indicates input/outoput not in standby

2 Indicates input/output in standby

Note: in the screen that concerns the credit and the sim's expiration, if question marks appears instead of the data, the information is not available at the moment. If "dots" appear instead, the system is updating the information with the provider.
By pressing the CANC (X) key again, you will shift to the display (if available) of the entire SMS received from the Provider

NOTE: The availability of residual credit value is closely related to the Provider of the GSM network that can provide this service or not

RESET DEFAULT

To bring the dialer back to its starting condition, you must remove power supply, press the # key and keep it pressed to resume power supply.
The dialer will ask you to choose the language (ITALIAN or foreign language), and will then run the initialization and will restore all the parameters to the default factory settings.
Note: The reset Default does not cancel the voice messages (neither the ones pre-recorded in the factory nor any messages recorded during installation)

LED FUNCTIONING LOGIC

The dialer is equipped with 3 signaling LED:
YELLOW LED = indicates that the GSM ENGINE is operating. When the initialization is over, it turns on permanently to indicate that the engine is ready and is not performing any operation.
When making a call or sending an SMS, the LED will return to flash again and indicate that the engine is operating.
GREEN LED = it is usually off and flashes when you are making a sound recording.
RED LED = indicates that there is problem in the system:
permanently on = GSM engine locked, signal or network absent, sim locked by pin code, card tamper, tamper of inputs.
Flashes = low credit

PROGRAMMING

Type in the installer code (000000 default): the dialer automatically positions itself on the first menu.
Use the up and down arrow keys to scroll the various menus.
Press ENTER *(✔)* to change the menu.
Use the alphanumerical keypad to type in the names and numbers
Use the CANCEL key *(✘)* to cancel the parameters or to enable the assignment boxed frames
Use the # key to exit the menus and to return to the display in standby

MENU OF IN / OUT LINES

IN/OUT LINES --> NAMES

The name can be changed for each line, instead of the default one.
- Once you have accessed the menu, press ENTER to highlight the line name you want to change.
- Use the up and down arrows to choose the desired line, then press ENTER again
- Use CANCEL to cancel the existent name, type in the new NAME with the alphanumerical keys (the writing method is similar to the one of cellphones without the aid of the T9 spelling alert). When finished, confirm with ENTER.

MENU OF IN / OUT LINES

IN/OUT LINES --> TYPE

With this menu you can assign the Type of operation concerned or signaling input or control output to the available lines.

- once you have accessed the menu, you can assign the following using the number keys or vertical arrows:

- = line not programmed
C = line configured as NC input
O = line configured as NO input
B = line configured as BALANCED input - **Balanced with a 1Kohm resistance**
U = line configured as OPEN - COLLECTOR output

MENU OF TELEPHONE NUMBERS

PROGRAM THE TELEPHONE NUMBERS (THE FIRST 8)

The first 8 telephone numbers are used to send voice calls, sms, or to pilot the entire system.
Press SEND to insert the telephone number
Rh or lh arrow key to move within the number
Use the CANCEL key to cancel
Confirm with ENTER
note: in case you use the system with caller ID, it is essential that you include the country dial code + 39 (i.e. +393485412963)

PROGRAM THE OPTIONS TO THE TELEPHONE NUMBERS

Once you've inserted the telephone numbers, you can assign the options that concern each individual number.
The options are the following 3 and can also be enabled simultaneously:
A: answer confirmation. The system must receive a # when the message is being listened to, to assess that a call has been successful; if this does not occur, the system will recall the same number again for a set number of call attempts.
If you want to access the voice menu, press # a second time and type in the user code.
B: direct access to the user menu. With this option, the user will not have to type in any code to access his menu.
C: automatic reset of call que. If the call to the telephone number with this option is successful, the que of the remaining calls in progress will ben canceled. When this option is enabled, it may prove useful to also enable option A to ensure safety of the calls.
NUMBER WITHOUT OPTIONS: once a phonecall is answered, it is considered successful and the system therefore moves on to the next one.
If you want to access the voice menu, press # and type in the user code.

PROGRAM THE TELEPHONE NUMBERS TO ENABLE THE OUT 5 (200 NUMBERS)

REMOTE CONTROL FUNCTION
In addition to the first 8 numbers, there is a special phone book with 200 numbers that can only be used to enable the output 5.
If one ore more numbers are inserted (including the international country code +39), by making only one ring to the dialer with the visible number, the dialer will recognize the ID of the caller and will enable the O.C. output in pulse or stable mode, depending on its programming.
This function has been conceived for applications in condominiums where, instead of using a remote control to open the gate, it is possible to use one's own cellphone.

NOTE: for the remote control function, the dialer will not send out a ring to confirm that the output has been enabled.
A telephone no. inserted in the first 8 **CANNOT** be inserted among the 200 of the remote control function. If need be, the remote control function must be used from the numbers inserted in the phone book of the first 8; enable these numbers when enabling the output via a ring (in the OUTPUTS - ASSOCIATE TELEPHONES menu).

RESET OF CALLS / SMS

The sending of the VOICE CALLS and of the SMS can be reset in the following ways:
- by typing in the User (Master) code on the keyboard
- during the reception of a call, by typing the RESET CALLS code
- by opening the RES terminal in the terminal board of the dialer
- by using the foreseen OPTIONS tied to the programmed telephone numbers

The reset of the calls will be confirmed by the VOICE GUIDANCE or by the wording RESET CALLS on the display

MENU OF VOICE CALLS

VOICE MESSAGES: LISTEN - RECORD

Once you have accessed the LISTEN - RECORD menu, press SEND (✓) and choose the message with the upand down arrow keys.
To record, press the CANCEL (✗) key: you will have 10 seconds to make the recording (the green LED flashes), press ENTER (✓) to listen to it again.
The messages available are:
- **E01 / E05 Opening L01/L05 =** message concerning the shift of the line from NORMAL to ALARM
- **E01 / E05 Closing L01/L05 =** message concerning the shift of the line from ALARM to NORMAL
- **E11 / E15 Tamper L01/L05 =** message concerning the tamper status of the line configured as balanced input, 1kohm
- **E16 Life test =** message concerning the periodic signaling of the life test
- **E17 GSM off for 1 min** = message concerning the signaling of GSM range absence for over 1 min.
- **E18 Dialer tampering =** message concerning the breach of the dialer anti-opening tamper
- **E19 Low credit =** message notifying that the credit exhaustion threshold has been reached **NOTE: to not use if SMS Echo is activated (Menù SMS Function Echo).**
- **Line msg. 01/05** = message indicating the name associated to the line, name communicated in the voice menu during the input status query or during the enabling/disabling of the outputs
- **System name =** heading message.

VOICE MESSAGES: ASSIGN TELEPHONES

With this menu, you can define the telephone numbers that will receive the various voice calls tied to the available events. The associable telephone numbers are 8.

- once you have accessed the menu, press ENTER to assign the messages to the phones.

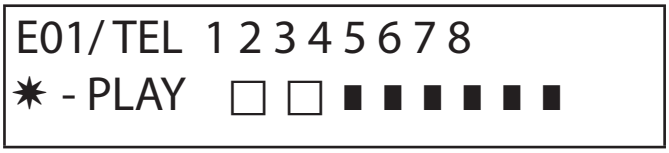


Fig. 1
Keyboard display

- to scroll down the events of the various messages (i.e. E01/tel), press the up and down arrow keys.
- the message no. and the 8 telephone numbers to which it can be associated are displayed in the upper row of the display. (i.e. in fig1 the message 1 is associated to the first 2 telephone numbers)
- press ENTER to proceed with the messages/telephones association
- to scroll the telephone numbers, press the rh and lh arrow keys; to assign or not assign, press CANCEL.
- confirm by pressing ENTER

TIME OF ATTEMPTS

Once you have accessed the menu, press ENTER to change the value.
This parameter indicates the time (expressed in seconds) that must lapse between one attempt and the next voice call attempt.
note: we recommend that you leave the default value, unless there are special requirements.

ANSWER WAIT

once you have accessed the menu, press ENTER to change the value.
This parameter indicates the time (in seconds) that the system waits when it rings another external telephone.
I.E. 30° indicates that our phone called by the dialer will ring for 30 seconds, after which the dialer will hang up and will restart with the next call cycle.
We recommend a minimum value of 50° seconds.

NUMBER OF ATTEMPTS

Once you have accessed the menu, press ENTER to change the value.
This parameter indicates the number of call attempts made in case of an unsuccessful call.

NUMBER OF MESSAGE REPETITIONS

Once you have accessed the menu, press ENTER to change the value.
This parameter indicates the number of message repetitions during a voice call.

MENU OF SMS MESSAGES

SMS MENU: EIDT THE TEXT

Description:

- Once you have accessed the menu, press ENTER to highlight the SMS you want to change.

Use the up and down arrows to choose the desired SMS/event, and press again to change the existent default message. The writing method is very similar to the one of cellphones without the aid of the T9 spelling alert.
Confirm with ENTER

SMS MENU: ASSIGN TELEPHONES

Once you have accessed the menu, press ENTER to assign the message to be assigned to the telephones.

- to scroll down the events of the various messages (i.e. E01/tel), press the up and down arrow keys.
- the message no. and the 8 telephone numbers to which it can be associated are displayed in the upper row of the display. (i.e. in fig1 the message 1 is associated to the first 2 telephone numbers)
- press ENTER to proceed with the messages/telephones association
- to scroll the telephone numbers, press the rh and lh arrow keys; to assign or not assign, press CANCEL.
- confirm by pressing ENTER

SMS MENU: ECHO FUNCTION

This function allows the user to send all the SMS received by the dialer back to the programmed numbers.
Once you have accessed the menu, press ENTER to change and assign the tel. numbers that will have to receive the messages.

The 8 numbers are indicated in the upper row. (i.e. in fig the first 2 telephone numbers will receive all the messages received by the dialer)

MENU OF INPUTS

MENU OF INPUTS: FUNCTION

IT IS possible to program the input with the following functions:

- = input disabled
A = Alarm - The dialer makes the calls only when the RES input is closed low.
H = Alarm 24h - The dialer always makes the calls, independently of the status of the RES terminal.

Double State: you may have specific reporting of the status change of each input (from Open to Closed or Closed to Open) either when its function is **A** or **H**

MENU OF INPUTS: ASSOCIATE THE OUTPUTS

It is possible to associate an output to each input, output which will be enabled in the moment in which the input is breached.
- Access the menu by pressing ENTER, choose the input to which you want to associate the output with the vertical arrows. Confirm by pressing ENTER; the cursor flashes, use the keys 1-5 to program the desired output.

MENU OF OUTPUTS

To each Ouput, you can assign a different Function, telephone numbers to enable it from remote, and its enabling length.
Note: the outputs can be directly enabled from the keyboard via the specific User menu

MENU OF OUTPUTS: FUNCTION

IT IS possible to program the output with the following functions:

- = output disabled
A = it is enabled by following the assoicated input (only with reset terminal closed)
H = it is enabled by following the assoicated input (always, independently from the reset terminal)
T = it is enabled following a tamper signal
U = it is enabled by using a specific user code (local from keyboard, or from remote via voice menu or sms)
P = it is enabled without the use of the User code, by sending out a simple ring to the dialer during the call
G = gsm problem
I = inputs in standby
C = low credit
R = it is enabled by emulating the telephone ring in case a call is received by the dialer. The Thru Ring parameter **must** be enabled.

Once you have accessed the menu, press ENTER twice, use the rh and lh arrows to position yourself on the desired output, and insert the function by pressing multiple times on the up key. Confirm with ENTER

MENU OF OUTPUTS: ASSOCIATE TELEPHONES

This function allows the user to enable a stable or pulse output, by simply sending out one ring to a programmed remote phone.
Once the numbers have been associated to the outputs in question, by calling the dialer and sending out **a single ring**, the dialer will recognize the caller ID and will enable the output, and its enabling will be confirmed by an answer ring.

Once you have accessed the menu, press ENTER, with the up and down arrows choose the desired output, then press ENTER again and use the Rh and Lh arrows to position yourself on the telephone number you want to associate press CANCEL (X) to include or exclude the selection, and confirm with ENTER.

Please be reminded that the Output must be programmed with the function "**P**"

PULSE DURATION

This parameter determines the duration in seconds of an output. The adjustment goes from 0° to 30°
Once you have accessed the menu, press ENTER to change the value, press CANCEL to cancel and insert the desired value and confirm with ENTER. **Note: an output with duration of 0 seconds is a stable type output.**

MENU OF USER CODES

TYPE OF USERS

This parameter defines the type of users.

M = Master, possibility to lock the calls from the keyboard, enable commands, query the system.

1 - 5 = User only enabled to enable/disable the associated output from the keyboard or from remote with the phone.

Once you have accessed the menu, press ENTER, with the up and down arrows choose the desired user, then press ENTER again and insert the desired function (keys **1-5** or key 9 for **M**) , and confirm by pressing ENTER.

MENU OF USER CODES: PROGRAM THE CODES

Once you have accessed the menu press ENTER,with the **up** and **down** arrow keys choose the user you want to change:

- Techical Code: code that can be used to program the system (default: 000000)
- User Code from user 01 to user 12: code that can be used to access the Keyboard to interact with the voice-guided menus when you are connected over the phone to the dialer, or as a password when using the sms (User 01 code default: 111111)
- Reset Calls: code that can be used to stop a call que. It is possible to insert even just one number.

When receiving a call, have the reset code be preceded and followed by the # (example: #123#).
THEvoice guidance confirms the operation with "CALL QUE INTERRUPTED". (default: 999999)
SIM Code: PIN code to be inserted; it must be the same as the PIN code that unlocks the SIM.
Note: if the dialer does not initialize when switched on, do not insist with attempts to start it, so as not to risk permanently locking the SIM card. Make sure the SIM is unlocked with the pin code.

Once you have accessed the menu, press ENTER to change the code, press CANCEL to cancel the old code.. Insert the new code and confirm by pressing ENTER.

CONTACT ID MENU

CONTACT ID MENU: IDC EVENTS

With this parameter, you can choose and change all the values of the report codes that concern the events notified by the dialer.
Default values:
line alarm = 130
line tamper = 137
GSM KO = 351
life test = 602
card tamper = 137

Once you have accessed the menu, press ENTER, with the up and down arrow keys, choose the event, press ENTER and press CANCEL to cancel the existent code and to insert the new code. Press ENTER to confirm.

CONTACT ID MENU: IDC AND SYSTEM NUMBERS

IDC numbers: It is possible to insert 8 telephone numbers to which send the report code
Press ENTER, insert the number, confirm with ENTER, with the up and down arrow keys, choose the next number.
Tel / ID Code: It is possible to assign an ID code for system identification to each telephone no., press ENTER, insert the code, confirm by pressing ENTER, with the up and down arrow keys choose the next number/code.

CONTACT ID MENU: MAX. ATTEMPTS

With this parameter, you can program how many attempts the modem must make before moving on to the next number. MAX programmable attempts: 10

CONTACT ID MENU: ANSW. WAIT

With this parameter, you can program the time the dialer waits for an answer during a call MAX programmable time: 50 sec.

CONTACT ID MENU: TONE WIDTH

With this parameter, you can change the width of the DTMF tone. This change must ONLY BE MADE IF THERE ARE PROBLEMS WITH RECEPTION OF THE GSM SIGNAL. The default setting is 3, it is possible to increase and/or decrease this parameter from 0 to 10. Each variation to this parameter must be tested with GSM operator used and the device intended for the reception of protocols.

CONTACT ID MENU: ASSOCATE TELEPHONES

IT IS possible to associate different report codes to different telephone numbers.
The list of the default events follows below: (all the events are changeable)
C01 - ALARM line 1 (EVENT 130)
C02 - ALARM line 2 (EVENT 130)
C03 - ALARM line 3 (EVENT 130)
C04 - ALARM line 4 (EVENT 130)
C05 - ALARM line 5 (EVENT 130)
C06 - TAMPER line 1 (EVENT 137)
C07 - TAMPER line 2 (EVENT 137)
C08 - TAMPER line 3 (EVENT 137)
C09 - TAMPER line 4 (EVENT 137)
C10 - TAMPER line 5 (EVENT 137)
C011 - LIFE TEST (EVENT 602)
C012 - GSM KO (EVENT 351)
C013 - CARD TAMPER (EVENT 137)

Once you have accessed the menu, press **ENTER**, with the **up** and **down** arrow keys choose the desired event, then press ENTER again use the **rh** and **lh** arrows to position yourself on the telephone number to be associated, press **CANCEL** to include or exclude the selection and confirm with **ENTER**.

SIM CREDIT INFO MENU

This menu is used to program the values for the request of the credit exhaustion and of the SIM expiration.
The parameters are: - phone number – SMS TExt- Keyword.
For The main Italian providers the parameters are already set. For the other providers, it's needed to set phone number/keyword / SMS text to send to the provider.
Note: it's possible to use a KEYWORD to identify the value for credit to visualize on display. This word MUST COME first of the value indicated in SMS received from the provider.
Example: SMS TEXT= "Traffic of 2,33 euro....." can be used Traffic.
SMS TEXT= "Credit available= euro 2,33....." can be used Credit.

It's possible also to activate the request for SIM EXPIRATION, only for the providers that offer this service.

ENABLE	TVWA
SIM EXP.	☐ ☐

CREDIT THRESHOLD	
[EURO]	5

In this exampleTim E Wind are enabled
It is also possible to program a low credit threshold, below which the dialer makes a call and/or sends and SMS.

NOTE: DON'T USE BOTH the functions LOW CREDIT and SMS ECHO . This in order to avoid the reception of low credit from both the GSM provider and the dialler.

TEST MENU

It's possible to test the capacity of the dialler to call (vocal call or contact id). To make the test you need only to insert the phone number (first position in phone book) to call in the phonebook (vocal/contact id).

Test -- Vocal Call *Call status:*

NOT READY – *the dialler is not able to call (example: not registered to GSM)*
CALLING – *the dialler is calling the number desired*
RING – *the number set is ringing*
ONLINE – *online*

To exit from the test phase, press the key #

Test -- Contact ID Call *Call status:*

NOT READY *– the dialler is not able to call (example: not registered to GSM)*
CALLING *– the dialler is calling the number desired*
RING *– the number set is ringing*
IN COMUNICATION *– online. Waiting for a signal from the receiver*
SENDING DATA *– sending data to receiver*
TEST OK ***– test finished successfully***
TEST KO ***– test finished with error***

To exit from the test phase, press the key #

MENU OF VARIOUS PARAMETERS

CARD TAMPER

This parameter enables or disables the anti-opening protection of the sim card slot.
Once you have accessed the menu, press ENTER, program the value (0=disabled 1=enabled) and confirm by pressing ENTER.

KEY BUZZER

This parameter either enables or disables key sound.
Once you have accessed the menu, press ENTER, program the value (0=disabled 1=enabled) and confirm by pressing ENTER.

VARIOUS PARAMETERS: LIFE TEST

This parameter indicates after how many hours the system must regularly inform the user that the life test result is successful and that therefore the GSM system works properly. (the value to be inserted is expressed in hours)
Once you have accessed the menu, press ENTER, press CANCEL to cancel the current value, program the new value, and press ENTER to confirm . (Can be programmed between 0 to 240) The default value is 0 = disabled

VARIOUS PARAMETERS: ASWR. RINGS

Indicates the number of rings the system waits for before answering the call.
Once you have accessed the menu, press ENTER, press CANCEL to cancel the current value, program the new value, and press ENTER to confirm. (the default value is 3).

VARIOUS PARAMETERS: EVENT DELAY

Indicates the time (in seconds) that the system must wait before it sends a signal following a first event notification: I.e. [value 10 seconds] with opening and closing of input 1, the signal will be immediately sent out. To re-open the same input within the programmed10 seconds, the second signal will not leave immediately, but once the 10 seconds have lapsed.
Once you have accessed the menu, press ENTER to change the value, press CANCEL to cancel it.

VARIOUS PARAMETERS: ACCEPT CALLS

Enable or disable the answer to all incoming calls.
Once you have accessed the menu, press ENTER, program the value (0=disabled 1=enabled) and confirm by pressing ENTER.

VARIOUS PARAMETERS: THRU RING

Either enables or disables a programmed output with RING function: this output simulates the incoming "RING" during the reception of an external call. It is used when you want to apply a line simulator also to receive phonecalls.
Once you have accessed the menu, press ENTER, program the value (0=disabled 1=enabled) and confirm by pressing ENTER.

ENVIRONMENT VOLUME

It is possible to change the volume of the environmental listening system. (default 8).
Once you have accessed the menu, press ENTER and program te value, confirm with ENTER.
note: if the environmental listening is enabled, it is also possible to change the listening volume during a call, by pressing the keys of your phone using the keys 1 - 2 (1 = raise volume, 2 = lower the volume).

LANGUAGE CHOICE

With this parameter you can choose one of the 2 languages available.
Once you have accessed the menu, press ENTER, press CANCEL to cancel, press 1 to choose the first language (Italian), press 0 to choose the second language if it is available (on request).. Confirm with ENTER.

PROGRAMMING AND MANAGEMENT FROM SMS MESSAGES

The dialer can also be programmed and managed via the SMS messages.
By sending a series of SMS to the dialer, you can:
- entirely program the system (excpet for the contact ID protocols)
- enable/disable the open-collector outputs
- check the status of the entire system

TECHNICAL - OPERATIONS (FOR THE INSTALLER) VIA SMS

The installer has the possibility, upon prior authorization of the user*, to reprogram the entire system.
The parameters programmable via SMS are the same that are visible with the keyboard; obviously, it will not be possible to record the voice messages, but you will have to use the default ones.

* The user authorizes the technical operations by sending an SMS message that unlocks the dialer. Once he receives this message, the installer has an authorization that lasts 20 minutes.

USER - OPERATIONS VIA SMS

The user has the possibility to:

- enable and disable the outputs
- monitor all the inputs of the dialer
- change the personal access code
- change the low credit threshold
- remove the buzzer from the keys
- allow the installer to reprogram the dialer from remote.

USE OF THE SMS FOR PROGRAMMING PURPOSES

The SMS to be sent must have a precise structure and must always be preceded by a "personal code declaration".
i.e. UPWD:111111 user password, or TPWD:000000 technical password
the format of the message is very simple: **ID[.index] operator [value]**

ID = indicates the command that you wish to use (i.e. UPWD is the user password command, IN_FN is the command that indicates the input function). (a complete list of the commands follows)
[.index] = indicates the subject ID number: number of the input, the output, the telephone, the password number, etc. etc. (i.e. IN_FN.1 = FUNCTION OF INPUT 1)
Operator = indicates the operation you must have the system make, the operations available are 3:
: indicates an affirmation, and it is used for the passwords (i.e. UPWD:111111)
= indicates an assignment i.e. OUT.1=ON assigns the status ON to output 1
? is a request i.e. IN.1? requests the status of input 1 (open or closed)
[value] = indicates the commands that can be used (see the following list): ON = enable (outputs) OFF = disable (outputs)

With each message, the system can answer with different commands:

OK	command executed
LOCKED	authorization missing, the system owner must grant permission to the technician
?	command not recognized
FAIL	it is impossible to execute the command (example: if you do not have execution priviliges
ON	reports the enabled status of the output
OFF	reports the disabled status of the output
OP	reports the ALARM input status
CL	reports the NORMAL input status

HOW TO CREATE A PROGRAMMING SMS

To enable the installer to program via SMS, the User (system owner) must grant his authorization, sending:
UPWD:111111 LOCK=OFF this command unlocks the programming via sms for 20 minutes. (111111 is the default pwd)

If the installer must for example assign the type "ALARM input" to input 2, he will send an SMS giving his password first and then the command: **TPWD:000000 IN_FN.2=A the command assigns the alarm function to input 2.**

As can be seen in the example, ALL THE COMMANDS MUST BE SEPARATED BY AT LEAST ONE SPACE, AND THERE MUST BE NO SPACE WITHIN THE SINGLE COMMAND. IT IS possible to insert spaces only if they are enclosed within quotation marks.
smstel.1= "door window kitchen" in this case, send the text of the SMS 1

With each command, the system will send back one or more sms with the outcome of the commands imparted:
i.e. we send an SMS with different commands:
TPWD:000000 IN_FN.1=A VOXTEL.1=12345 VOXTEL.2=123 VOXREPEAT=3
After it has received the message and programmed everything, the system will answer with an SMS in the following manner:
TPWD:OK
IN_FN1:OK
VOXTEL1:OK
VOXTEL2:OK
VOXREPEAT:OK

In case the system is not enabled by the user, it will send a **LOCKED** message.
If the system cannot perform a certain command (user not authorized), it will answer with **FAIL**.
If the system does not recognize a message (script errors), it will answer with **?.**

A FEW PROGRAMMING EXAMPLES

FIRST EXAMPLE: program the 1st input with the alarm function, with an alarm voice call, with an alarm sms toward 4 telephone numbers. The string must be structured as follows:
tpwd:000000 in_fn.1=A voxtel.1=1234 smstel.1=1234 tel.1=+39123456 tel.2=+39678123 tel.3=+39125677 tel.4=+39987654 smstext.1="intrusion alarm"

SECOND EXAMPLE: program the 1st input with an alarm, with an alarm voice call and an alarm sms, 2nd input of 24h type with sms sending only, to be all sent to 3 telephone numbers; moreover, if the phonecall comes to the first number, the other must not start:
options A and C (number of correspondence for the 5 telephone number options)

The string must be structured as follows:
tpwd:000000 in_fn.1=A in_fn.2=h voxtel.1=123 smstel.1=123 smstel.2=123 tel.1="+39123456" tel.2=123456 tel.3=123456 teloptions.1=5

LIST OF ENTRIES/AVAILABLE parameters:

"TPWD" --> TECHNICAL PASSWORD (6 numerical characters)
"UPWD" --> USER PASSWORD (6 numerical characters)
"CPWD" --> RESET CALLS CODE (from 1 to 6 numerical characters)
"TEL" --> TELEPHONE NUMBER (max. 16 numerical characters)
"SMSTEXT" --> SMS TEXT (max. 160 characters)
"SMSTEL" --> ASSOCIATE SMS TO TELEPHONE NUMBERS (TEL from 1 to 8 or tel. combination - i.e. 1245)
"VOXTEL" --> ASSOCIATE VOICE CALLS TO TELEPHONE NO. (TEL from 1 to 8 or tel. combin. - i.e. 1245)
"EXTTEL" --> REMOTE CONTROL FUNCTION TELEPHONE NUMBERS (max. 16 numbers)
"LIFETEST" --> LIFE TEST (in hours from 0 to 240)
"EVTDELAY" --> EVENT MEMORIZATION TIME (in seconds from 0 to 240)
"VOXTRY" --> CALL ATTEMPTS (max. 9)
"VOXDELAY" --> TIME OF THE ATTEMPTS (in seconds from 0 to 240)
"VOXREPEAT" --> VOICE MESSAGE REPETITIONS (max. 9)
"VOXWAIT" --> ANSWER WAIT (in seconds from 0 to 60)
"RINGSNR" --> RINGS BEFORE ANSWER (max. 10)
"OUTTEL" --> ASSOCIATION OF TELEPHONES TO OUTPUTS (TEL from 1 to 8 or tel. combin. - i.e. 1245)
"OUT" --> ENABLING OF OUTPUTS (ON or OFF)
"IN" --> QUERY OF STATUS OF INPUTS (?)
"LOCK" --> LOCK / UNLOCK REMOTE PROGRAMMING (on or off)
"INCALL" --> ACCEPT INCOMING CALLS (0 or 1)
"PASSRING" --> PASSRING (0 or 1)
"USERMODE" --> USERMODE (M, 1,2,3,4, or 5)
"PTIME" --> TIME OF OUTPUTS which can be customized for each output (in sec. from 0 to 30)
"TAMPER" --> TAMPER ENABLING (0 or 1)
"IN_FN" --> FUNCTION OF INPUTS (-, A, H)
"OUT_FN" --> FUNCTION OF OUTPUTS (-, A, H, T, U, P, G, I, C, R)
"LINENAME" --> LINE NAME (max. 16 characters)
"TELOPTIONS" --> TELEPHONE OPTIONS (accepted values: 1=A, 2=B, 3=AB, 4=C, 5=AC, 6=BC, 7=ABC)
"MONEYTHR" --> CREDIT THRESHOLD (DA 1 A 100)
"SOUNDKEY" --> KEY BUZZER 0 = off, 1 = enabled
"INOUTLNK" --> INPUT/OUTPUT ASSOCIATION (from 1 to 5)

TECHNICAL SPECIFICATIONS

Power supply	*13,8Vcc +/- 0.7 Vcc*
Current in standby:	*150mA*
Maximum current	*2000mA*
Antiapertura / Anti-opening / Autoprotection	✓
Cover / Housing / Boiter	*polycarbonate*
Times for Generation/Transmission of alarm signal	*tra 1 e 8 sec.*
Times for detection/generation anomalies	*inputs : 1 sec.*
	led / display : 1 sec.
	Outputs GSM failure: ~ 60 sec.
Priority signalling inputs	*Chronological Order*
Resistance for balancing inputs	*1000 ohm*
Type GSM interface	*Pubblic Interface*
Dimensioni / Dimensions	*H=30 cm x L=26 cm x P= 7,5 cm*
Certified environmental conditions	*between +5°C to +40°C*

Meets the requirements:
Conforme ai requisiti:
CEI EN 50136 -1-1
CEI EN 50136 - 2 -1 + A1

Grade 2
Class 2

RoHS COMPLIANT 2002/95/EC

CE

The installation must be carried out to state of the art by specialized personnel.
AMC Elettronica S.r.l. rejects any responsibility in the case that the product is tampered with by unauthorized persons.
We recommend that you check that the alarm system functions properly at least once a month; however, a reliable electronic alarm system does not prevent break-ins, thefts, fires, or other, but only decreases the risk that these situations occur.

The telephone alert with GSM technology that do not use PSTN telephone lines cannot be guaranteed in the case of limitations and/or problems due to faultiness in the service offered by the network provider.