

Q1 FIRE-LINE *DS 100*



WITH NEW FEATURES:

- DTMF COMMANDS
- NEW SMS COMMANDS
- TIME SCHEDULER

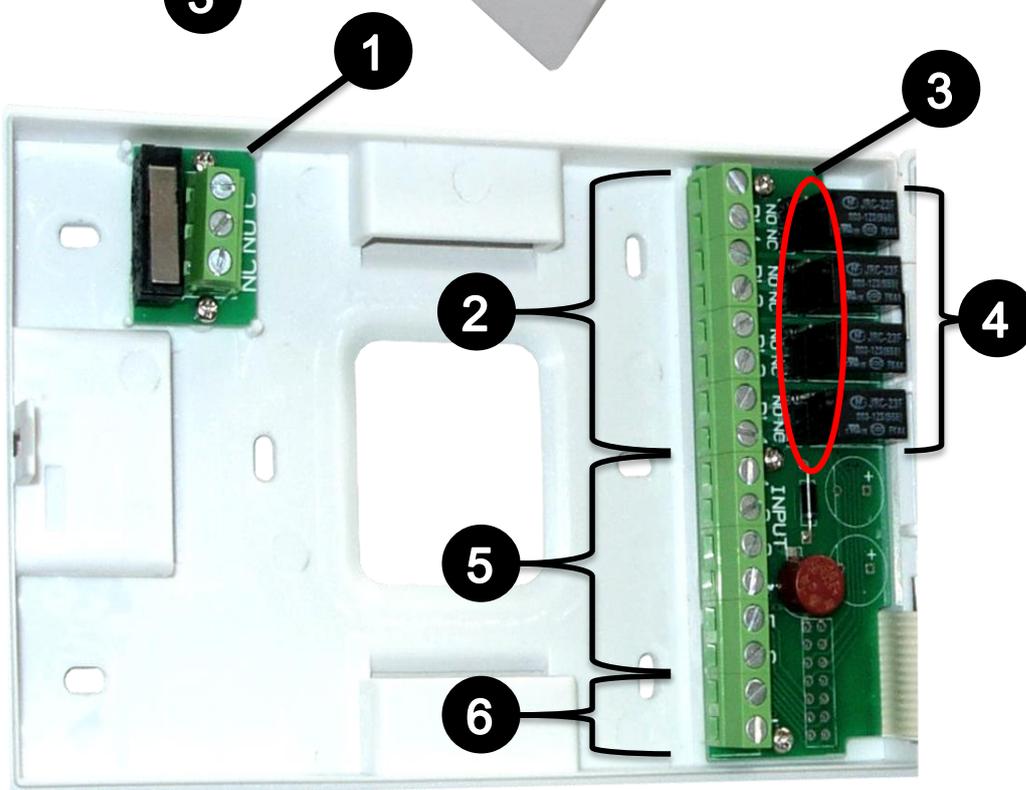


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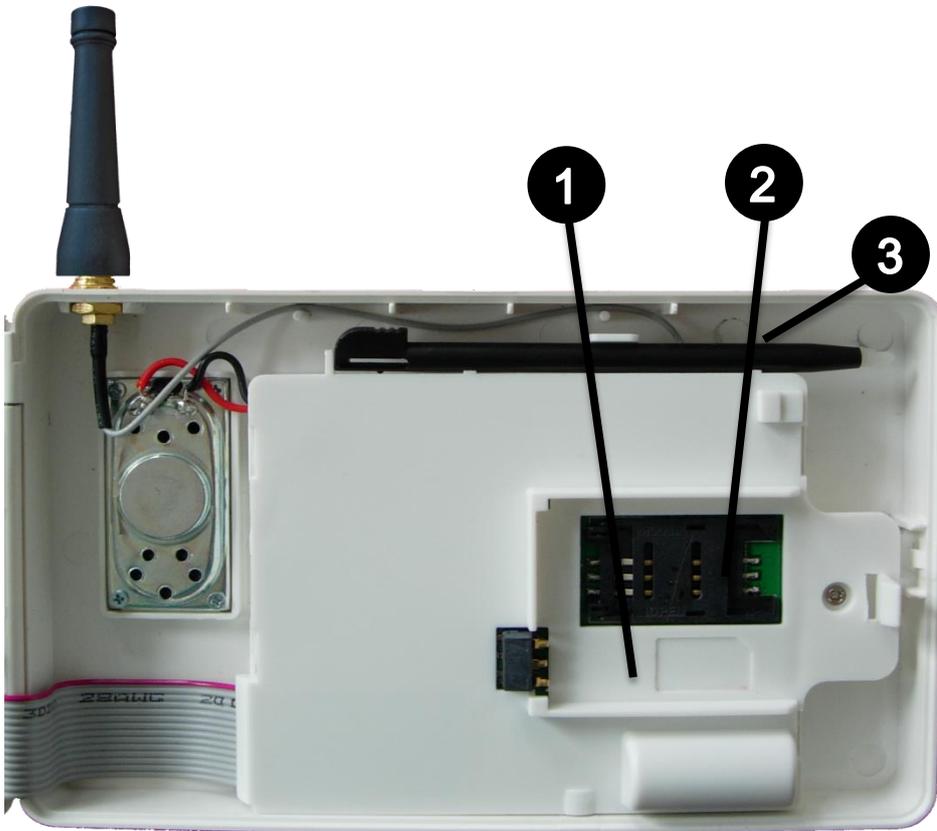
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- 1) GSM antenna (included)
- 2) Touchscreen
- 3) DS 100 opening point (insert a 4mm flat head driver and push)
- 4) Microphone
- 5) Speaker



- 1) Security tamper, form -C
- 2) Outputs 1 – 4
- 3) Jumpers 1 – 4
- 4) Relays 1 – 4
- 5) inputs 1 – 6
- 6) Power*



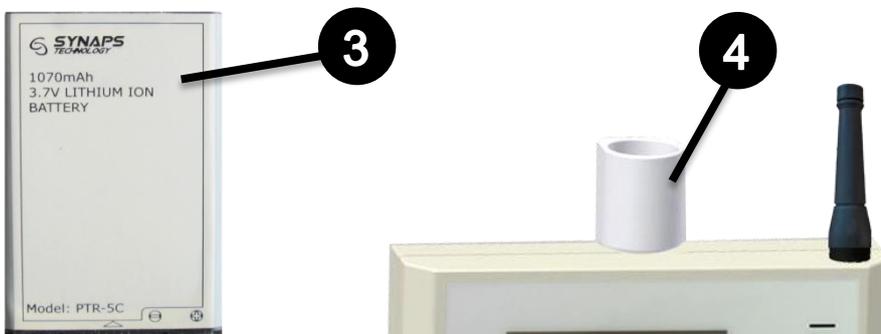
1) Battery slot

2) SIM slot (under the battery)

3) Pen for touchscreen (included)

4) Rechargeable lithium-ion battery (included)

5) Conduit adaptor (included)



***THE POWER SUPPLY OF THIS DEVICE MUST BE PLACED IN THE BUILDING OF THE DEVICE ITSELF.**

1) Features

Power source:	<ul style="list-style-type: none"> • from 10,5V to 30V continuous current
Absorption:	<ul style="list-style-type: none"> • At rest: Display on 90mA; Display off 30mA • In alarm: Calling 150mA (max 300mA during GSM peaks); Outputs 20mA for each activated relay
Working temperature:	<ul style="list-style-type: none"> • From 0°C to 45°C
Working humidity:	<ul style="list-style-type: none"> • Not condensing
IP grade:	<ul style="list-style-type: none"> • IP31C
Battery:	<ul style="list-style-type: none"> • Internal, 15 hours autonomy • Use only with lithium-ion battery PTR-5C o BL-5C • WARNING: EXPLOSION HAZARD IF THE BATTERY IS SWITCHED WITH ANOTHER BATTERY TYPE. DISPOSE THE BATTERY FOLLOWING THE INSTRUCTIONS
Storable numbers:	<ul style="list-style-type: none"> • Up to 1000 phone numbers • Every contact can be individually authorized to activate each selected output • Received messages can be forwarded to specific contacts • Allows the hands-free call with authorized contacts
Storable SMS:	<ul style="list-style-type: none"> • 25 text messages with 160 characters maximum length • Programmable with chained actions
Voice messages:	<ul style="list-style-type: none"> • 6 voice messages with 20 sec. each • Recorded voice messages can be played

Outputs:	<ul style="list-style-type: none"> • 4 outputs with programmable relays and continuous or pulsed activation • The output's contacts can be "normally closed" or "normally open", selectable by Jumper • Programmable activation's duration of pulsed outputs • Relays' voltage limit is 30V – 1A MAX
Inputs:	<ul style="list-style-type: none"> • 0V minimum voltage. Maximum voltage is equal to the external power source • 6 programmable inputs that react to several solicitation types • Triggers activated by "normally closed" or "normally open" contacts, either by positive or by ground
Handled events:	<ul style="list-style-type: none"> • 6 triggers activated by respective inputs • No line CC trigger • Low battery trigger • Incoming call trigger
Tamper:	<ul style="list-style-type: none"> • Opening and wall unhide control tamper, 3 poled terminal board, for a fire central or input connection. • Tamper switches' voltage limit is 50V MAX
Programming:	<ul style="list-style-type: none"> • Locally by touchscreen • In remote-control by included software: DS 100 Programmer
Outputs control:	<ul style="list-style-type: none"> • In remote-control by SMS • In remote-control during alarm phone call
Additional features:	<ul style="list-style-type: none"> • Commands through SMS (SIM's credit, status request) • Possibility to control the device by DTMF tones • Time scheduler • Calls log downloadable by software DS 100 Programmer • Hands-free call function
Supported line providers:	<ul style="list-style-type: none"> • TIM; Vodafone; Wind; and derived • The provider 3 is not supported

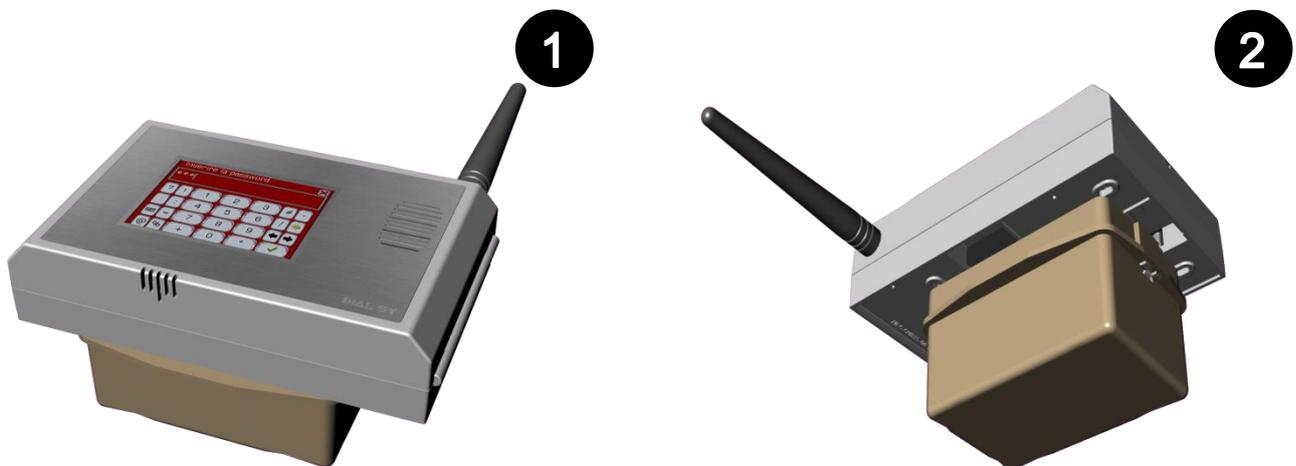
2) Introduction

DS 100 is a last generation phone dialer that combines simple controls with the most advanced technologies in domestic and industrial security. This device is equipped with 6 programmable input lines e 4 output lines on relays, and offers a complete actions' customization system making the DS 100 a unique product, perfect for all kind of situations.

DS 100 can react to a sequence of triggers to which a user can link a range of actions that are going to be run by the dialer each time the trigger is activated. For each trigger (6 physical inputs, low battery, lack of power source, incoming call), the dialer allows the programming of a sequence of 25 possible reactions chosen between: output activation, sending SMS and phone call.

In this way saved actions will characterize each trigger, not only allowing customized events but also the association of more than one event to the same trigger. With a minimal device's knowledge base many automated sequences of events can be created, which can be initialized even through remote commands, available on DS 100.

To ease the installation procedure the back of DS 100 has been designed to be compatible with 503 boxes (Fig. **1** e **2**).



3) Installation

Output jumpers

Move the jumper to select NO or NC for each output.

Outputs

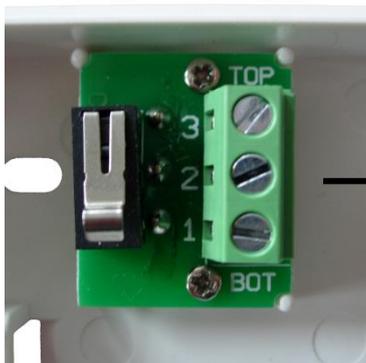
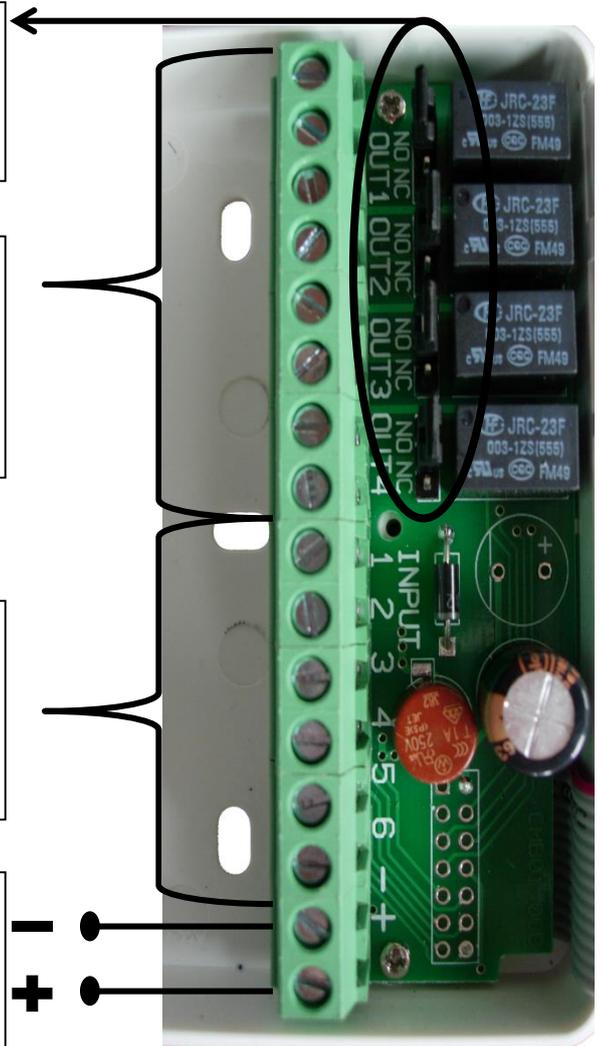
OUT1; OUT2; OUT3; OUT4: 2 terminals for each output NO – NC selectable by jumper.

Inputs

Terminals from 1 to 6. The connections must be done based the device's inputs configurations.

Power source

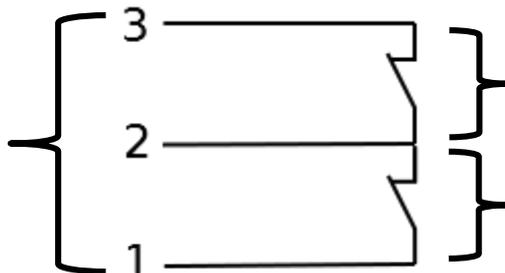
10,5V min; 30V max continuous current.



2 security tampers

Connect contacts 3 and 2 to activate the opening control; Connect contacts 2 and 1 to activate the wall un hinge control; Connect contacts 3 and 1 to activate both.

Both tampers monitoring is activated connecting contacts 3 and 1.



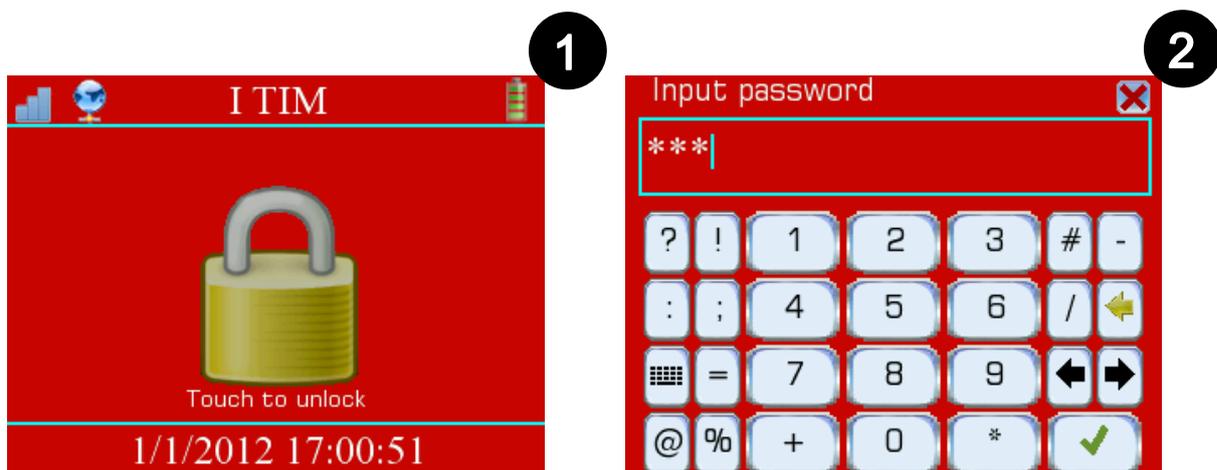
Opening tamper

Wall un hinge tamper

4) Start and lock screen

During the launch DS 100 starts the GSM registration procedure, in which the user must wait the end of the process*. Both in case of successful registration and in case of missing connection, the device will continue to the lock screen.

***The SIM's pin request must be disabled in order to get a successful GSM connection.**



The **lock screen** (Fig. 1) has an information top bar (described later) and a bottom time bar.

To unlock the phone dialer is necessary to press the padlock at the center of the screen and insert the admin password (set by default on "12345*") by **the numerical touch keypad** (Fig. 2). At the end finish the procedure pressing the confirmation button at the bottom right of the screen .

If you decide to login with the user password (set by default on "54321") the following features won't be available: Inputs; Outputs; Associations; Voice messages.

IMPORTANT:

Every time DS 100 is unlocked (either with administrator password or user password) this resets all alarms activated in that moment and all outputs that aren't controlled by time scheduler.

Furthermore when the phone dialer is unlocked every trigger is disabled, in this way the technician can easily program the device avoiding accidental alarm activations.

To re-habilitate the triggers it is necessary to set the device in lock screen (by "Lock" button), at the shutdown of the screen backlit (after 1 minute of inactivity) the device will be automatically set in lock mode.

***IT IS HIGHLY RECCOMENDED TO CHANGE THE DEFAULT ADMIN PASSWORD.**

5) Main screen and top information bar

In **top information bar** they are showed:

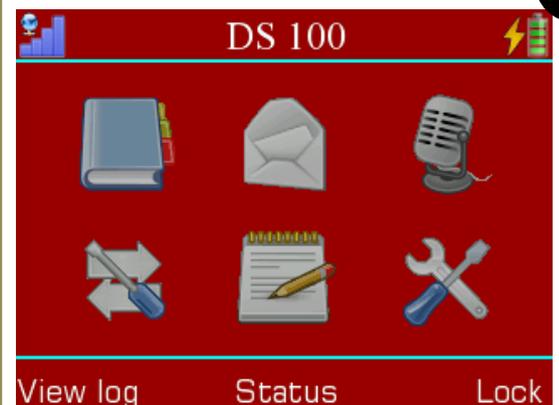
- GSM line quality (.
- The presence or not of GPRS connection (.
- The screen name (ex: **Actions List**) in the related sections or the phone provider's name if we are in the lock screen (ex: **ITIM**).
- The battery power charge status () , which presents also a thunderbolt at the side if it is supplied by an external power source (.

From the **icons in the main menu** (Fig. **1**) with just a couple of taps you can directly access to every DS 100 function:

- Phonebook (.
- SMS (.
- Voice messages (.
- Inputs, outputs, associations and time scheduler (.
- Reports (.
- Configurations (.

At the bottom of the screen we can find:

- “Log” button to access the events log.
- “Status” button to access the status screen.
- “Lock” button to return to the lock screen.

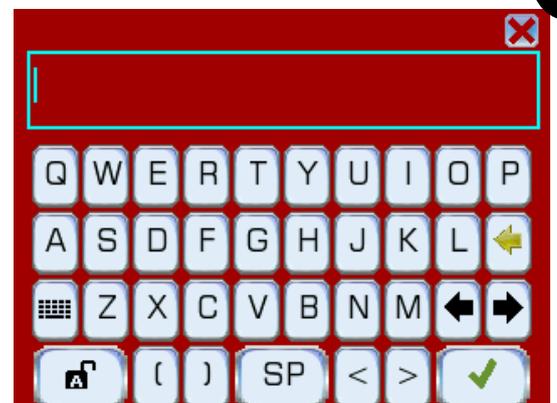


1

6) Phonebook

In the **phonebook main screen** (Fig. 1) we can:

- Create a new contact (by “New” button).
- Modify a contact (selecting a contact and pressing “Modify” or double tapping the selected contact).
- Delete a contact (selecting a contact and pressing “Delete”).
- Return to the main menu (by “Back” button).



Create or modify a contact:

- Insert the contact’s name by touch pad (Fig. 2).
- Insert the contact’s number by numerical touch pad (Fig. 3).
- Select the desired contact’s settings (described later), checking the related boxes (Fig. 4).



The **contact settings** are needed to give special remote control privileges to some contacts or to forward the DS 100 received messages to the corresponding number:

- **Alarm reset:** enable the contact to reset the alarm from remote (SMS and DTMF commands, see paragraph 14).
- **Drive outputs (all):** enables all output drives (also the unselected ones).
- **Drive output 1 – 4:** allows the selected contact to enable the related output from remote.
- **Enable hands-free answer:** allows the contact to enable the hands-free conversation when he calls the device during the alarm procedure.
- **Forward SMS:** Sends to the contact every SMS not related to remote commands that DS 100 receives from not registered phone numbers (This feature is useful if we want to receive the messages that DS 100 receives from the provider, for example in the case of remaining credit messages).

7) SMS



Inside the **SMS main screen** (Fig. 1) it is possible to:

- Create a new message (by “New” button).
- Modify a message (selecting an item and by pressing the “Modify” button or double tapping the selected message).
- Delete a message (selecting a message and pressing the “Delete” button).
- Return to the main menu (by “Back” button).

1

Create and modify a SMS:

- Insert the message's name by touch pad (Fig. 1).
- Insert the message's text still by touch pad.

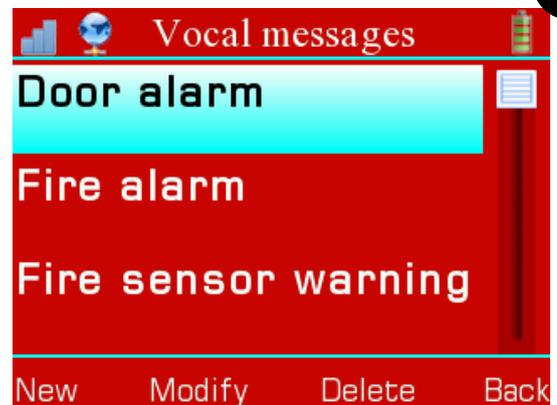


8) Voice messages

In the **voice messages main screen** (Fig. 2) it is possible to:

- Create a new voice message (by “New” button).
- Modify a voice message (selecting an item and by pressing the “Modify” button or double tapping the selected voice message).
- Delete a voice message (selecting a voice message and by pressing “Delete” button).
- Return to main menu (by “Back” button).

2





Create or modify a voice message:

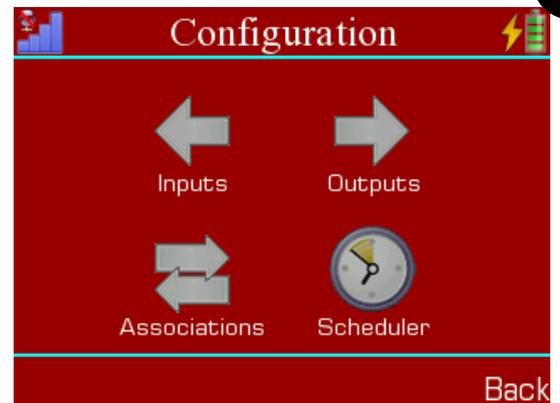
- Insert the voice message's name by touch pad (Fig. 1).
- In the record screen (Fig. 2) press the REC button (●) to start voice message's recording (the maximum length is 20 seconds).
- Press the STOP button (■) to stop the registration.
- Press the PLAY button (▶) if you wish to listen the recorded message.
- Repeat the procedure if you wish to change the recorded message.
- Save the recorded message with the return button (⌘) and then confirm pressing the "Ok" button.

9) Inputs, outputs and associations

From **outputs, inputs and associations menu** (Fig. 1) we can access to the following functions:

- Inputs (←)
- Outputs (→)
- Associations (↔)
- Scheduler (🕒)

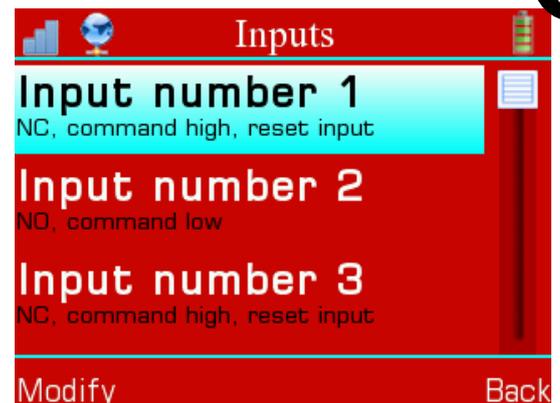
It is also possible to return to the main menu by pressing “Back” button in the bottom-right corner of the screen.

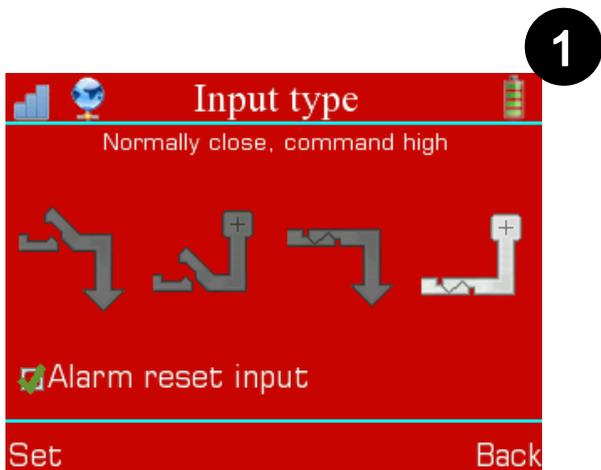


8a) Inputs

To **set up an input**:

- Select an input from the inputs list (Fig. 2), and then press the “Modify” button.
- Insert the input’s name by touch pad.
- Select the input’s type in the dedicated screen (described later).
- Confirm pressing the “Save” button in the bottom-left corner of the screen.





In the **input's type select screen** (Fig. 1) there are 4 types of inputs:

- Normally open, command low (↘)
- Normally open, command high (↘+)
- Normally closed, command low (↙)
- Normally closed, command high (↙+).

It is also possible to set the **input as alarm reset** checking the related box. In this way the input activation will cause the alarm reset of the device.

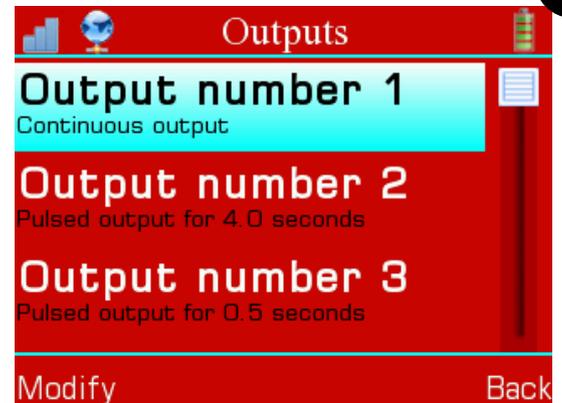
8b) Outputs

To configure an output:

- Select an output from the outputs list (Fig. 1), and then press the “Modify” button.
- Insert the output’s name by touch pad.
- Select output’s type in the dedicated screen (described later).
- Confirm pressing the “Save” button in the bottom-left corner of the screen

To try an output:

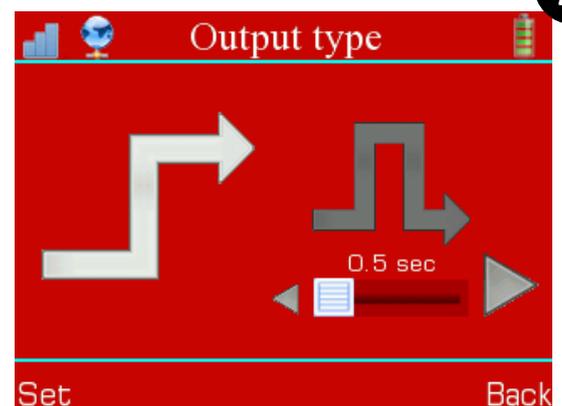
- Select an output and then press “Switch”.



In the **output’s type select screen** (Fig. 2) there are 2 output’s types:

- Continuous output (↷)
- Pulsed output (↷)

Selecting a pulsed output it is also possible to set up a pulse time by the related horizontal bar



8c) Associations

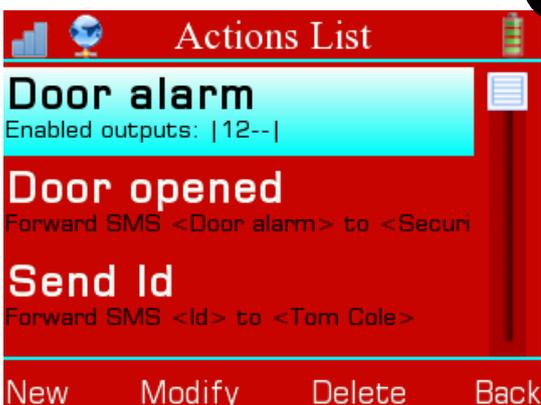


The **association menu** (Fig. 1) displays the trigger's list. These are formed by the names of the 6 triggers, by a trigger of "No line", by a trigger of "Low battery" and by a trigger of "Incoming call".

The items in the list have also a description regarding the input's type. In this way we can have a fast preview about the trigger on which we are going to create or modify actions.

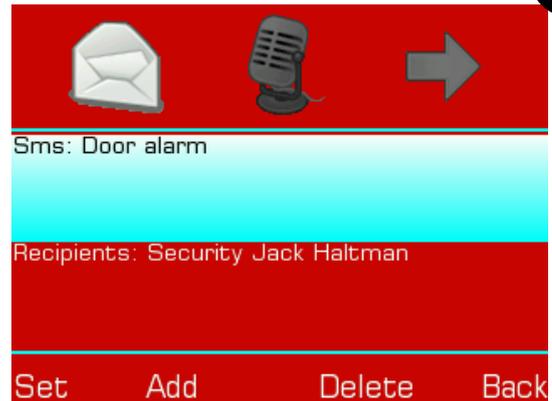
Selecting an item on the list and pressing "Modify" we can access to **the action list** (Fig. 2) associated to that trigger. In this screen we can:

- Create new actions (by "New" button).
- Modify an action (selecting an item and pressing the "Modify" button or double tapping the selected action).
- Delete an action (selecting an action and pressing the "Delete" button).
- Return to association menu (by "Back" button).



To create a SMS dispatch action (Fig. 1):

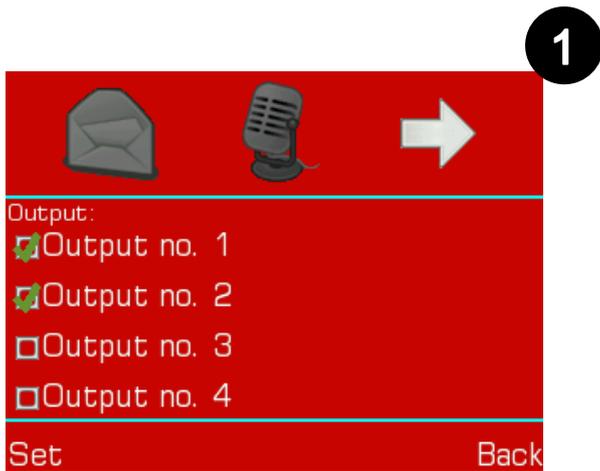
- Insert an action's name by touch pad.
- Press the message icon at the top-left of the screen (📧).
- In the middle of the screen select the "SMS:" section and then press "Add" (or double tapping the section) to add a message.
- Select the section "Addressee:" and then press "Add" (or double dapping the section) to add an addressee.
- Repeat the operations above to chain more SMS or to add addressees
- Press "Save" to save the action.



To create a voice message dispatch action (Fig. 2):

- Insert an action's name by touch pad.
- Press the voice message icon at the top-middle of the screen (📞).
- In the middle of the screen select the "Voice Message:" section and then press "Add" (or double tapping the section) to add a voice message.
- Select the section "Addressee:" and then press "Add" (or double dapping the section) to add an addressee.
- Repeat the operations above to chain more SMS or to add addressees.
- Press "Save" to save the action.





To **create an output activation action** (Fig. 1):

- Insert the action's name by touch pad.
- Press the outputs' icon at the top-right of the screen (→).
- Check the outputs' related checkboxes that will be activated with the selected trigger.
- Press "Save" to save the action.

The **alarm sequence** of every trigger follows the actions' insertion order. In case of more than one call action, The DS 100 will try to call all the associated contacts. In case of failed or missed call the device will try in a later time to call the numbers who didn't respond.

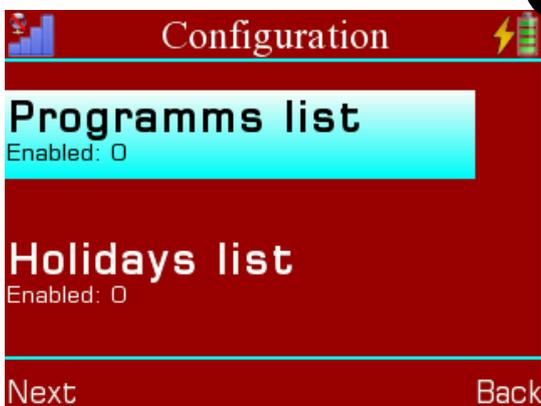
In the chance that the device receives the "reset" command from an enabled user, the DS 100 will try to finish the current action before interrupting the entire procedure. Then take into account that if in the ongoing action there are multiple calls, if the device receives the reset command, it will do all the programmed calls.

For example if you want to receive a SMS when the home entrance is opened (Supposing it is linked to input 1) you need to:

- Add you own phone number to the phonebook.
- Create a new SMS message.
- In the "Associations" screen select input 1.
- Create a new SMS action, and insert in the created message and set up your contact as addressee.

9d) Scheduler

From **the scheduler menu** (Fig. **1**) we can set the programs and the holiday days of the time scheduler. From this screen we can choose to set a program going into the “Programs list”, or set a holiday plan through the “Holidays list”.



To set a program:

- Select “Programs list” then select a program.
- Insert the program name.
- Enable the program checking the dedicated checkbox, then check the outputs used by the program and the days of the week when the program will be operating (Fig. **2**).
- In the next screen it is possible to set the hour, inputs and outputs to enable or disable selecting the dedicated checkboxes (Fig. **3**).
- Press “Next” to add up to 4 events or “End” to save the changes made till that moment.



To set a holiday plan:

- Select “Holiday list” then select a holiday plan.
- Insert the holiday name.
- Enable the holiday checking the related checkbox then select the “Yearly” checkbox if you want to repeat the plan every year (Fig. 1).
- Set the starting date and time of the holiday, then press next to set the ending date and time (Fig. 2).
- Press “End” to save and finish the configuration.

During the holiday all enabled programs that should be executed during that time range will be ignored, so the outputs and inputs configurations will remain how the last program set them up.



10) Reports

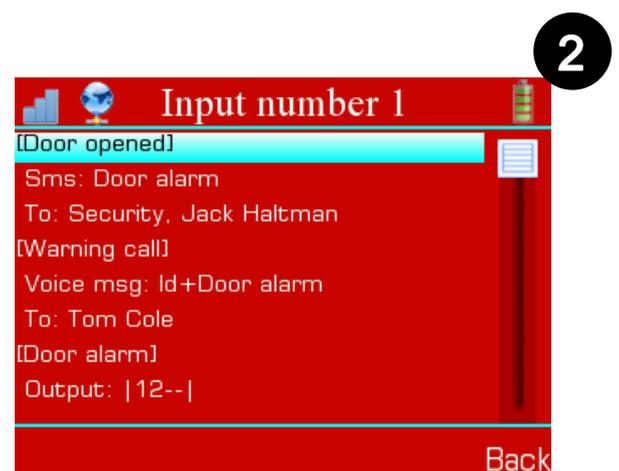
The **reports screen** (Fig 1) recaps every set up association for each trigger, in this way we have a simple and full view of every set up action. It is showed by a list of triggers, and each item shows in the text below the number of associated actions.

To view the trigger's details we must select the desired item and then press "View" (or double tapping on the selected item).



The **trigger's details screen** (Fig. 2) shows an associations' list that is structured in this way:

- The action's name in square brackets.
- SMS's list or voice messages' list depending on case.
- Addressees' list.
- Enabled outputs in case of "Output" as association type, showing the number of enabled outputs or a dash ("-") if the output is disabled.



11) Settings

In the **settings' screen** (Fig. 1) we can find, in this order, the following functions:

- Change language.
- Touchscreen calibration.
- Change date and hour.
- Modify GSM settings.
- Modify APN.
- Modify user password.
- Modify administrator password.
- DS 100 reset.
- View the firmware version.
- Force a restart.
- Set up current SIM credit and SIM expiring messages.
- Set up the alarm calls sequence.



To **calibrate the touchscreen** we must select the “Display” voice in the settings list, and then press “Modify”. In the new screen press “Ok” to start the procedure, and then follow the instructions on screen.

To **change the language** select the item “Language” in the settings list and then press “Modify”. In the language screen select de desired language and press “Modify”.

To **change date and hour** select the item “Date / Hour” in the settings list and then press “Modify”.

In the new screen set up the date (top) and the hour (bottom) by the numerical up/down, and then press “Save”.

To **change the GSM settings** select the “GSM” item in the settings’ list and then press “Modify”.

In this screen it is possible to:

- Increase or decrease the number of keep alive messages that the DS 100 sends to the administrator (users with “forward SMS” enabled) informing him about the correct working state of the device.
- Enable the output 4 in case of GSM absence. This output will remain enabled until the GSM signal is restored
WARNING: If you enable this feature DO NOT use output 4 in your associations, because the behavior of the device is not definable.
- Enable blind calls that allow the device to send the voice messages without waiting the answer (Useful in the zones with a low GSM signal).
- Change the GSM volume (volume of the calls that the DS 100 does) moving the cursor in the horizontal bar.

To save the settings press “Save”.

To **change the APN** select the “APN” item on the settings’ list and then press “Modify”.

Insert by touch pad the provider’s APN, and then confirm the operation.

***It is necessary to complete this procedure for the correct operation of the GPRS, that is necessary for the remote programming e for the firmware upgrade.**

To **change the user password** (set by default to “54321”) select the item “User Password” in the settings’ list and then press “Modify”. Insert by touch pad the current user password, then confirm and insert the new password. Confirm again to end the procedure.

To **change the administrator password** (set by default to “12345”) select the item “Administrator Password” in the settings’ list, then press “Modify”. Insert the current administrator password by touch pad, then confirm and insert the new password. Confirm again to end the procedure.

To **reset the DS 100** select the item “Reset” in the settings’ list, and then press “Modify”. Insert the administrator password by touch pad, and then confirm to reset the dialer*, at the end of the procedure the device will start the touchscreen calibration, so follow the instruction on screen and end the procedure (also see “touchscreen calibration” paragraph).

***The reset brings back the device to the factory settings, deleting every data added by the user.**

To **force a DS 100 restart** select the item “Force a restart” in the settings’ list, then press “Modify”. Insert by touch pad the current administrator password, then confirm to restart the dialer.

1



To **set up the alarm sequence** select the item “Alarm Sequence” in the settings’ list, then press “Modify”.

Increase or decrease the number of call tries by the numeric up/down and then set up the time delay between one try and another by the horizontal bar.

On “Firmware Version” you can **view the current firmware version** installed on the device.

To **get current SIM credit and the SIM the SIM expiring SMS** (Fig. 1) select the item “SIM” and, then press “Modify”:

- Select the text field below the item “Number or USSD to get credit:” and type the USSD (for ex. “*123#” for Wind) or the current balance SMS number of your provider (for ex. “404” for Vodafone, “40916” for TIM, “4155” for Wind).
- If you choose to use the SMS number instead of USSD you must check the item “Use SMS for credit. Text:” and set up the message text to send in the text area below (for ex. “Traffico” for Vodafone, “Saldo” for Wind, “CREDITO” for Tim).
- If you want to receive a SIM expiring SMS you have to check “SIM expiring alert SMS”. The device will generate automatically a date that is 11 months later. In that day the DS 100 will send the desired notification message. To refresh the date tap on the date area.

12) Events log

1



In the events log screen (Fig. 1) every event type listed below is recorded. The maximum number of recorded events is 960:

- Low battery.
- No power source line.
- GSM network absence.
- Input “x” activated (where “x” is the number of the activated input).
- Output “y” activated (where “y” is the number of the activated output).
- Administrator log-in (tracks when someone logs-in with the administrator password).
- Administrator log-out (tracks when the administrator logs-out).
- User log-in (tracks when someone logs-in with the user password).
- User log-out (tracks when the user logs-out).
- Connect: “aaa.bbb.ccc.ddd” (where “aaa.bbb.ccc.ddd” is the computer IP to which the DS 100 was connected to).
- To “contact” Attempts: “x” (tracks each time, during an alarm, the DS 100 tries to call a contact without getting any answer. Where “contact” is the contact number, and where “x” is the number of attempts).
- Alarm reset (tracks each alarm reset).

Each of the items above is listed with a date text that indicates when the event has occurred.

You can also clean the events log by pressing the “Clean log” button in the bottom-left corner of the screen.

13) Status screen

The status screen (Fig. 1) shows:

- The inputs' activation status ("1" to indicate an enabled input, and "-" to indicate a disabled input). An enabled input should trigger an output alarm in the maintenance mode.
- The outputs' activation status ("1" to indicate an enabled output, and "-" to indicate a disabled output).
- The potential difference value of the battery.
- The potential difference value of the external power source.



14) Remote commands

The remote commands can be used by simply sending a command SMS to the device, or thanks to the DTMF commands during the phone calls in alarm procedure. The commands are necessary for many main features.

You must insert your phone number in the device's phonebook in order to be recognized.

Every SMS sent by an unregistered number will be forwarded to the contacts with the "Forward SMS" option enabled. The commands can be written in lowercase, in uppercase or in any combination of these.

14a) SMS commands

The "**CONFIG**" command is used to access a tcp/ip port to receive or transmit data with the software DS 100 Programmer, and can be used only by the users with "Reset alarm" option enabled, or by everyone if there aren't any number in the phonebook.

To use this command you just need to send "CONFIG remote_ip remote_port password random_number" as SMS message:

- Where "remote_ip" is the computer's public IP to which the DS 100 is going to connect (ddd.ddd.ddd.ddd).
- Where "remote_port" is the remote port on which the computer is listening for the DS 100 communication (from 5000 to 65535)
- Where "password" is the administrator password.
- Where "random_number" is the 4 digits number randomly generated by the software.

➤ SMS example (in case of remote_ip = 235.123.100.75, remote_port = 7888, password = 12345 random_number = 4277):

CONFIG 235.123.100.75 7888 12345 4277

The alarm “**RESET**” **command** can be used only by the users with the “Alarm reset” option enabled.

To use this command you just need to send “RESET” as SMS message

- SMS example: **RESET**

The DS 100 will block every active alarm in that moment

The “**ACTIVATE**” **command** is used to enable a DS 100 output, and can be used only by the users with the related “Drive output” option enabled.

To use this command you just need to send “ACTIVATE output” as SMS message:

- Where “output” is the output’s number to activate (1 – 4).

➤ SMS example (in case of output = 2): **ACTIVATE 2**

The “ACTIVATE” command is chainable. This means you can activate more than one output with a single message, simply adding the output’s numbers to activate separated by space.

➤ SMS example (in case of outputs = 1 and 4): **ACTIVATE 1 4**

The “**HELP**” **command** is used to request the remote commands list, and the DS 100 will answer with a SMS with all remote commands in it, and can be used by every contact in the device’s phonebook.

To use this command you just need to send “HELP” as SMS message.

➤ SMS example: **HELP**

The “**DEACTIVATE**” command is used to deactivate a DS 100 output, and can be used only by the users with the related “Drive output” option enabled.

To use this command you just need to send “DEACTIVATE output” as SMS message:

- Where “output” is the output’s number to deactivate (1 – 4).
- SMS example (in case of output = 2): **DEACTIVATE 2**

The “DEACTIVATE” command is chainable. This means you can deactivate more than one output with a single message, simply adding the output’s numbers to deactivate separated by space.

- SMS example (in case of outputs = 1 and 4): **DEACTIVATE 1 4**

The “**STATUS**” command is used to request the activity status of the dialer DS 100. That will answer with a status SMS, and can be used by every user in the phonebook.

To use this command you just need to send “STATUS” as SMS message.

- SMS example: **STATUS**

The “**CREDIT**” command can be used only by the users with the “Forward SMS” option enabled.

To use this command you just need to send “CREDIT” as SMS message.

- SMS example: **CREDIT**

The DS 100 will answer you with a message containing the current SIM credit.

The “**TRIGGER**” command is used to activate a single trigger, and can be used by the users with at least one “Drive output” option enabled*.

To use this command you just need to send “TRIGGER input” as SMS message:

- Where “input” is the input’s number of the trigger to enable (1 – 6).
- SMS example (in case of input = 6): **TRIGGER 6**

***In case of trigger activation with the “Alarm reset” option enabled the device will reset the alarm only if the user who sent the command has the same option activated in the contacts options (“Alarm reset”).**

With “**INFO**” command you can ask to the DS 100 the list of enabled inputs in that moment. This command can be used by every user in the phonebook.

To use this command you just need to send “INFO” as SMS message:

- SMS example: **INFO**

The DS 100 will answer with the name list of the enabled inputs. If their name is longer than 20 characters they will be abbreviated to 17 characters plus 3 continuation dots.

Using the “**INPUTS**” command you can obtain the name list of the inputs and their enabled status. This command can be used by every user in the phonebook.

To use this command you just need to send “INPUTS” as SMS message:

➤ SMS example: **INPUTS**

The DS 100 will answer with the name list of all inputs with at the right a “1” if the input is enabled, or “-“ if it is disabled. If their name is longer than 20 characters they will be abbreviated to 17 characters plus 3 continuation dots.

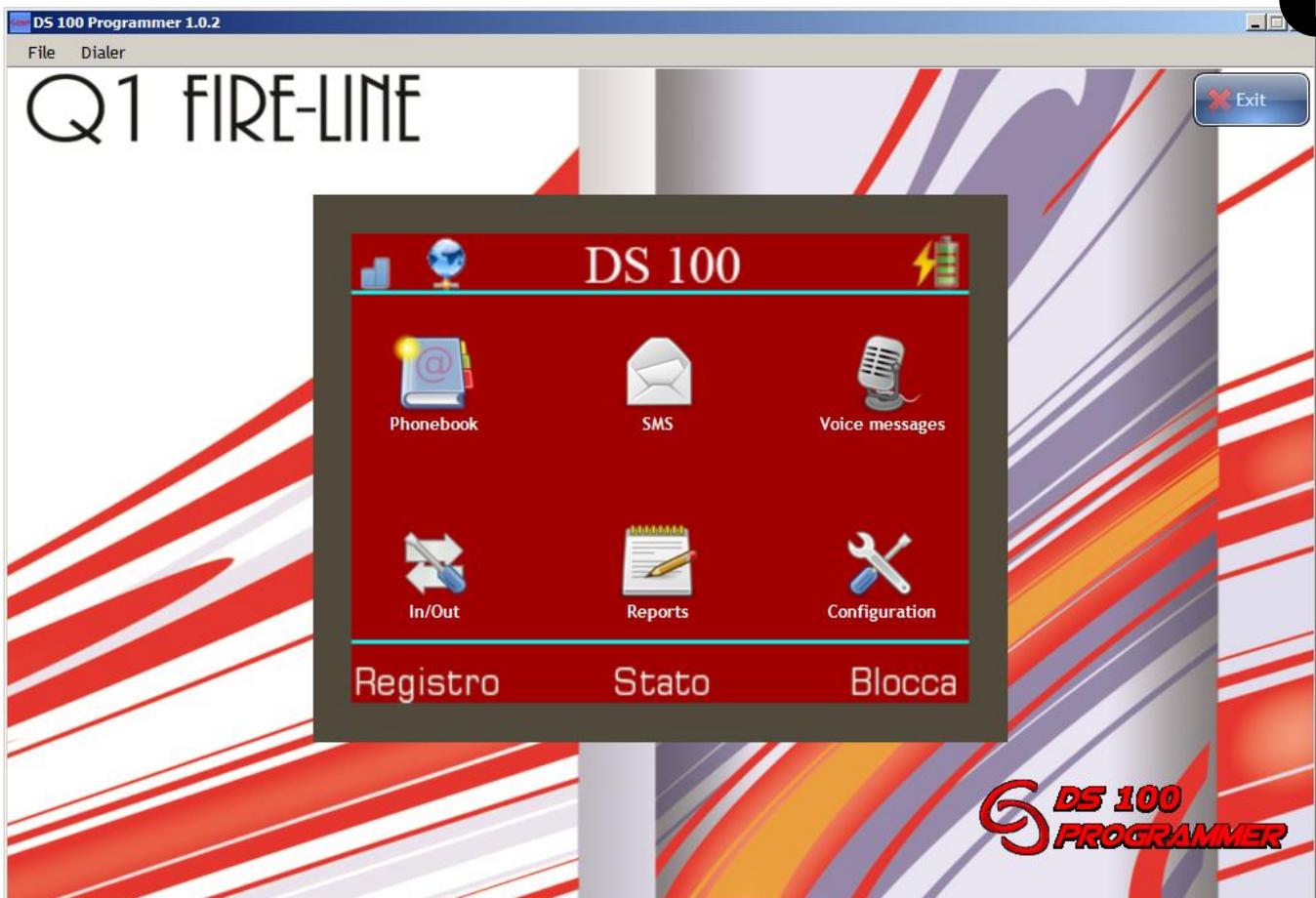
14b) DTMF commands

You can use **DTMF commands** during a phone call by the DS 100 during an alarm procedure. To use these commands the user must have the same permissions requested by the related SMS commands. Through the numeric keypad with tones of the phone you can:

- Block the running alarms with the **hash key (#)** (user with “Alarm reset”).
- Enable an output with the numeric keys **1, 2, 3, 4** (User able to enable the related output).
- Disable an output with the numeric keys **5, 6, 7, 8 for the respective outputs 1, 2, 3, 4**: key 5 = output 1; key 6 = output 2; key 7 = output 3; key 8 = output 4 (User able to enable the related output).

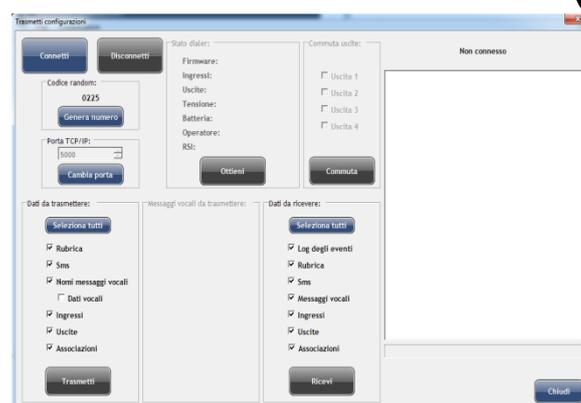
15) Remote programming through software

The last version of the software **DS 100 Programmer** (Fig. 1) is downloadable from the website www.synaps-technology.com. It offers the possibility to create the configuration system of phone dialer in a similar way as on the device itself. You will be able to do it comfortably from your pc, and then send it to the DS 100 through an internet connection with a public IP. You can also download the last available firmware from our server to update the dialer with new features.



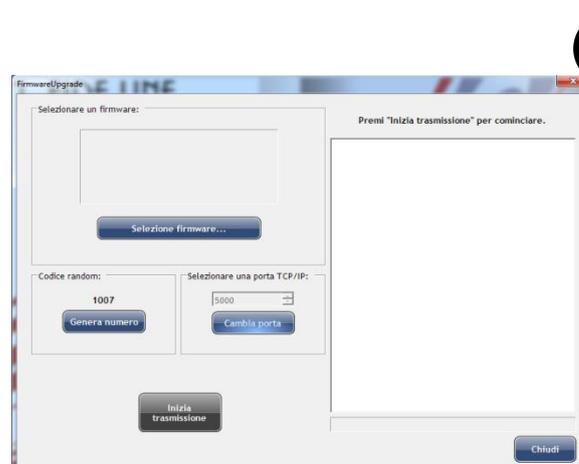
To **program a DS 100 by software** you need to:

- Make sure you have an internet connection with public IP.
- Insert the administrator password in the “Configuration” menu (press “Change password” to confirm the change).
- In the tools bar on the top open “Dialer” then “Transmit configurations” (Fig. **1**).
- Press “Change port”, insert a port from 5000 to 65535, press “Change port” again to confirm.
- Press the button “Connect”.
- Make sure to be registered on the dialer as a user enabled to use remote commands of “Config” type (option "Alarm reset" in the contact configurations).
- Send a “Config” SMS to the DS 100. The syntax is "**CONFIG remote_ip remote_port password_admin random_number**". For example if **remote_ip = 235.123.100.75**, **remote_port = 7800**, **password_admin = 12345**, **random_number = 4277** the SMS message will be "**CONFIG 235.123.100.75 7800 12345 4277**".
- Wait the program connection.
- Select with the checkboxes the data da receive or transmit and then press the related buttons “Transmit” or “Receive” (you can’t receive the vocal messages recorded on the dialer due to the low upload bandwidth of the GPRS connections, but they are sendable).
- From this screen you can commute the outputs and get useful data of the device.
- When you finished the desired operations press “Disconnect”.



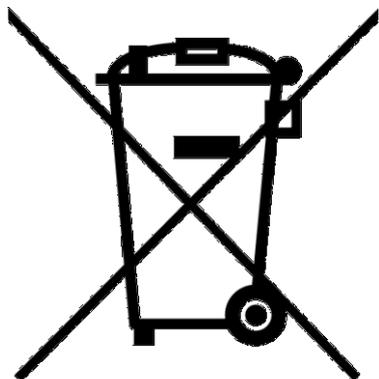
To update the DS 100 firmware through software you need to:

- Make sure you have an internet connection with public IP.
- Insert the administrator password in the “Configuration” menu (press “Change password” to confirm the change).
- In the tools bar on the top open “Dialer” then “Firmware update (Fig. 1).
- Press “Select firmware...” and select a firmware to download (alternatively you can drop a firmware file in the “Firmware” folder of the software and this will appear in the list).
- Press “Change port”, insert a port from 5000 to 65535, press “Change port” again to confirm.
- Press the button “Transmit”.
- Send a “Config” SMS to the DS 100. The syntax is "**CONFIG remote_ip remote_port password_admin random_number**". For example if **remote_ip = 235.123.100.75**, **remote_port = 7800**, **password_admin = 12345**, **random_number = 4277** the SMS message will be "**CONFIG 235.123.100.75 7800 12345 4277**".
- At the end of the procedure the dialer will be updated and you can close the firmware update screen.



Correct disposal of the product

(Waste Electrical and Electronic Equipment Directive)



(Relevant in the countries of the European Union and in those with a recycling system)

This mark exposed on the product or on the documentation points out that this product can't be disposed normally with other domestic garbage at the end of its life cycle. To avoid possible damages to the environment or to the health caused by the inappropriate disposal of the garbage, we invite the user to take out this product from other type of garbage and to recycle it in a responsible way to support the sustainable reuse of the material resources.

The domestic users are invited to contact the seller where the device has been bought or the local office in charge for any information concerning the separate collection of rubbish and the recycle of this type of product.

The business users are invited to contact their supplier to verify terms and conditions of their purchase contract.

This product must not be disposed together with other commercial garbage.



Declaration of conformity:

Synaps Technology S.r.l., C/O
AREA Science Park (Building E3)
Padriciano, 99 – 34149 TRIESTE
declare under our sole

responsibility that the product

DS 100 is in conformity with all
the requirements of the **European
Directive 1999/5/EC**.

This conformity has been verified
on the basis of the following
harmonized standards:

- ETSI EN 301 511 V9.0.2
- ETSI EN 301 489-1 V1.8.1
- ETSI EN 301 489-7 V1.3.1
- CENELEC EN 60950-1:2006
+ A11:2009
+ A1:2010
+ A12:2011
- CENELEC EN 50385:2002

