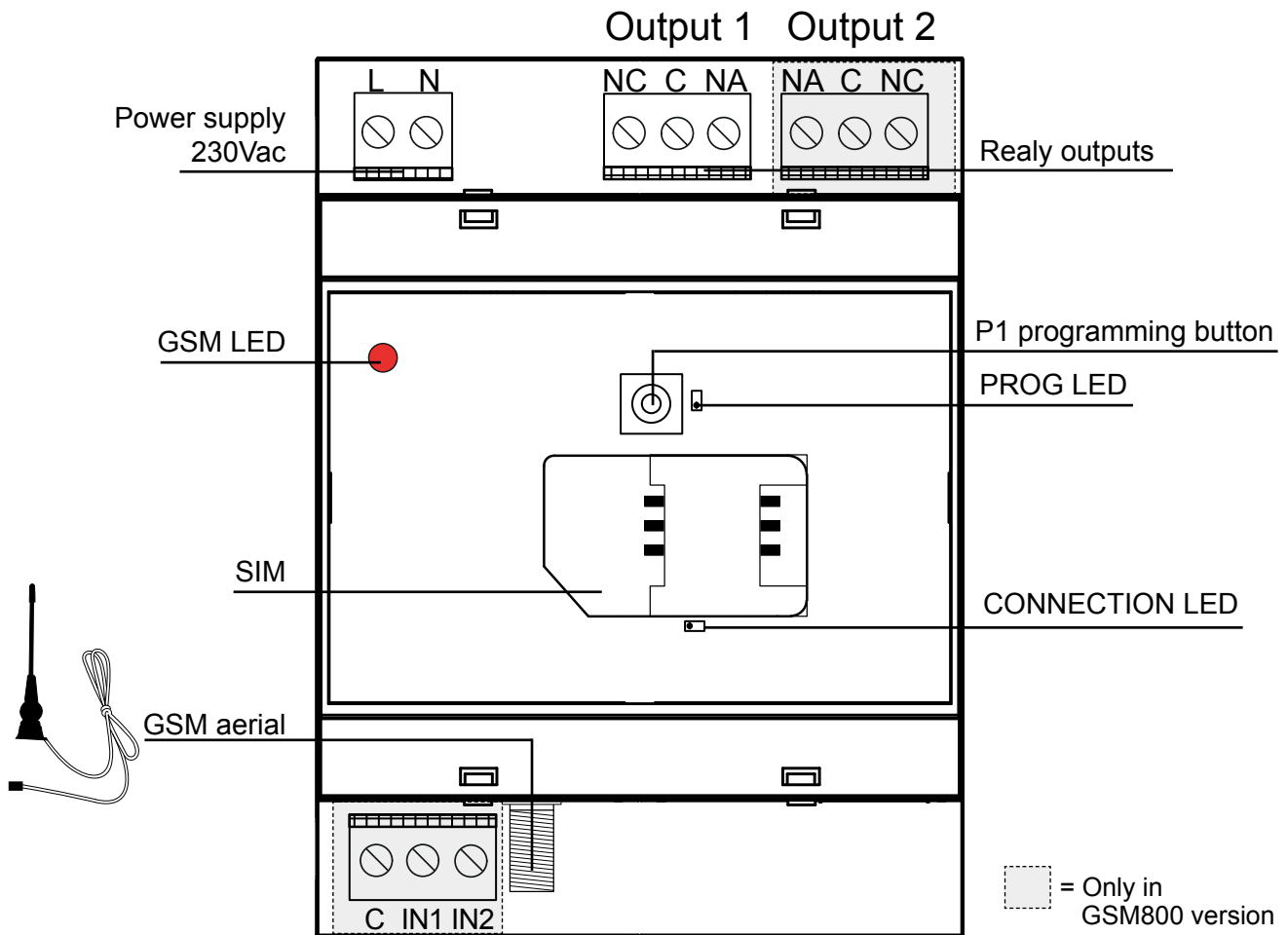


## GSM RECEIVER WITH 1 OR 2 OUTPUTS - DIN RAIL MOUNTING

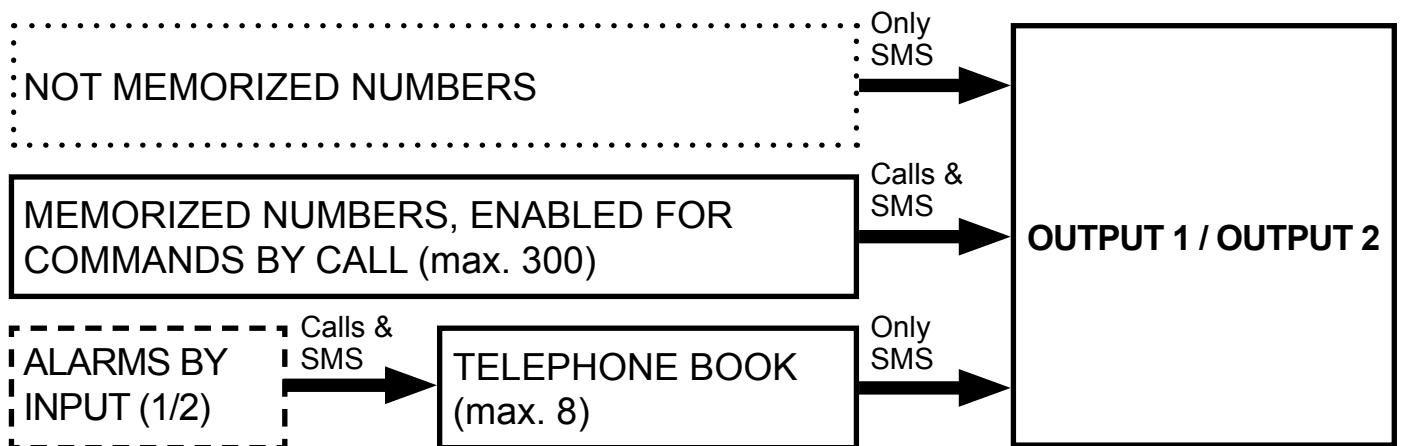
GSM receiver with 1 (**GSM700**) or 2 (**GSM800**) relay outputs N.O. or N.C. (potential free contacts).  
 Inputs for 2 wired alarms N.O. or N.C. (**GSM800**). Programmable relay function: impulsive, ON/OFF, timer.  
 Ideal for DIN rail mounting (dimension: 4 modules).

The device has a built-in GSM-Quad Band module, suitable for communication via SMS or phone-call.  
 For a correct installation and use of this product, scrupulously respect the indications laid out in this manual.  
 The product could produce or be subject to interferences that may influence its performance or the functioning of other devices in the proximity. Read carefully the Safety Information.

### 1 - Product description



### 1.1 - Product functioning



## 2 - Preliminary check

- SIM card must be active and having credit.
- PIN code and the answering service **MUST** be disabled.
- Do not activate any other additional services, like the incoming calls filter or number masking.

We suggest to try the correct functioning of the SIM by means of a standard mobile phone before starting the installation of the product.

## 3 - Installation

- Insert the SIM in the proper slot of GSM receiver.
- Install the aerial for the GSM signal reception.
- Switch the product on.
- Wait about 30 seconds for the initial startup and the connection to GSM signal.

**Connection led** quickly flashes during the GSM signal research, then slower once the connection is ready.

**GSM led** shows the quality of the connection and possible errors:

GSM led	Meaning
Quick flash	Startup of the module (about 30 sec. at the first power-on)
ON (solid)	No GSM signal
4 slow flashes and a pause	Excellent GSM signal
3 slow flashes and a pause	Good GSM signal
2 slow flashes and a pause	Sufficient GSM signal
1 flash and a pause	Poor GSM signal
Quick flashes then ON (solid)	No SIM card
Slow flashing	SIM card has the PIN code activated

## 4 - COMMAND BY CALL

By means of a free phone call, it's possible to activate the outputs.

In order to use this function it is necessary to memorize the telephone number in the GSM receiver.



### 4.1 - Memorizing/deleting a telephone number for COMMAND BY CALL

#### Memorizing a number



1. Press **once** the programming button, PROG led flashes then it turns ON.
2. Within 30 seconds make a call; when the GSM module receives the call PROG led quickly flashes.
3. Hang-up.

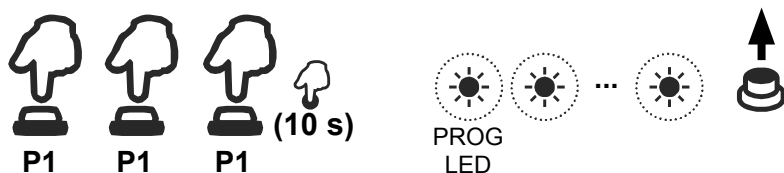
#### Deleting a number



1. Press **twice** the programming button, PROG led slowly flashes.
2. Within 30 seconds make a call from the number to delete; when the GSM module receives the call PROG led turns off.
3. Hang-up.

**Note:** It is possible to memorize or delete a telephone number even with SMS commands.

### 4.2 - Deleting ALL the telephone numbers



Press **3 times** and hold the programming button down for at least **10 seconds**; during this lapse PROG LED will flash intermittently and quickly, until it will turn constantly on. At the end release the button.

## 5 - COMMANDS BY SMS



By means of a SMS it's possible to command the outputs, checking their status, activating some functions or modifying system parameters. The default password is "12345", but it can be modified with an SMS.

### Notes:

- SMS commands are NOT case sensitive.
- If any SMS not reported in the table below is received (e.g., credit info), the device forward the same SMS to the first number memorized in the telephone book.
- According to the standard used in a specific country, it could be necessary write the telephone numbers with the international dialing codes or just with a "0" before.
- The device replies to the configuration SMS with another SMS ("OK") and to the command SMS with a phone call.

### 5.1 - SMS for preliminary operations

n.	DESCRIPTION	SMS TEXT
1	<b>GSM CONNECTION CHECK</b> Reply: SMS ("System OK") + call	password,CKE
2	<b>MEMORIZING A PHONE NUMBER FOR COMMAND BY CALL</b> Max. memorizations: <b>300 numbers</b> <u>Syntax</u> : it's possible to memorize one single number (e.g. 12345,MAC,xxxxxxxxxxxx) or more (maximum 10), separated by commas, for each SMS. Furthermore it's possible to memorize one number (or more) that will be valid just for a limited number of commands: in order to activate this function add to the number the parameter "U", followed by the validity (number of commands). (e.g. yyy = valid for yyy commands)	password,MAC,xxxxxxxxxxxx, xxxxxxxxxxxx,.....  password,MAC,xxxxxxxxxxxx, xxxxxxxxxxxxUyyy,.....
3	<b>DELETING A PHONE NUMBER FOR COMMAND BY CALL</b> <u>Syntax</u> : it's possible to delete one number (e.g. 12345,DAC,xxxxxxxxxxxx) or more (maximum 10), separated by commas, for each SMS.	password,DAC,xxxxxxxxxxxx, xxxxxxxxxxxx,.....
4	<b>DELETING ALL THE PHONE NUMBERS FOR COMMAND BY CALL</b> <u>Syntax</u> : the command DAC must be followed by the valid password, repeated 2 times.	password,DAC,password, password
5	<b>MEMORIZE A NUMBER IN THE TELEPHONE BOOK</b> <u>Syntax</u> : x = position in the telephone book (1-8). y = telephone number (max. 19 digits). <u>Notes</u> : the telephone book has 8 positions maximum. The numbers memorized in the telephone book have both alarm calls and SMS activated by default. If a position is already occupied, it is overwritten.	password,TEL,x, yyyyyyyyyyyyyy
6	<b>DELETE A NUMBER IN THE TELEPHONE BOOK</b> <u>Syntax</u> : x = position in the telephone book to delete (1-8).	password,DEL,x
7	<b>LIST OF NUMBERS IN THE TELEPHONE BOOK</b> The device sends the list of the numbers with their position.	password,NUM?
8	<b>ACTIVATION OF ALARM SMS FOR A SPECIFIC NUMBER</b> <u>Syntax</u> : the command SMS is followed by the positions in the telephone book (from 1 to 8 max.) of the numbers for which is required to activate the function (e.g. SMS145 activate the sms sending for the numbers at positions 1,4 and 5). <i>This function sends only automatic sms relative to the input activation.</i> <u>Note</u> : All the numbers memorized by means of the command TELx have this function activated by default.	password,SMS,xxxxxxx

☐ = MEMORIZED NUMBERS, ENABLED FOR COMMANDS BY CALL    ■ = TELEPHONE BOOK NUMBERS

n.	DESCRIPTION	SMS TEXT
9	<b>DEACTIVATION OF ALARM SMS FOR A SPECIFIC NUMBER</b> The command deactivates the reception of alarm sms. See syntax and notes above.	<i>password,DSMS,xxxxxxx</i>
10	<b>ACTIVATION OF ALARM CALLS FOR A SPECIFIC NUMBER</b> <u>Syntax</u> : the command VOC is followed by the positions in the telephone book (from 1 to 8 max.) of the numbers for which is required to activate the function (e.g., <i>VOC145</i> activate the alarm calls for the numbers at positions 1,4 and 5). <i>This function makes only automatic calls in case of input activation.</i> <u>Note</u> : All the numbers memorized by means of the command TELx have this function activated by default.	<i>password,VOC,xxxxxxx</i>
11	<b>DEACTIVATION OF ALARM CALLS FOR A SPECIFIC NUMBER</b> The command deactivates the reception of alarm calls. See syntax and notes above.	<i>password,DVOC,xxxxxxx</i>

## 5.2 - Command and diagnostic SMS

n.	DESCRIPTION	SMS TEXT
12	<b>OUTPUT ACTIVATION</b> <u>Syntax</u> : x = output number (1 or 2 or 1,2 both *)	<i>password,OUT,ON,x</i>
13	<b>OUTPUT DEACTIVATION</b> <u>Syntax</u> : x = output number (1 or 2 or 1,2 both *)	<i>password,OUT,OFF,x</i>
14	<b>OUTPUT STATUS</b> <u>Reply</u> : SMS "out 1 x;out 2 x" x=status (on, off) *	<i>password,OUT?</i>
15	<b>INPUT ENABLING (ONLY GSM800)</b> <u>Syntax</u> : x = input number (1 or 2 or 1,2 both) Default setting: <i>inputs are disabled</i> . In <b>GSM800</b> version it is necessary enabling the inputs before using them.	<i>password,INP,ON,x</i>
16	<b>INPUT DISABLING (ONLY GSM800)</b> <u>Syntax</u> : x = input number (1 or 2 or 1,2 both)	<i>password,INP,OFF,x</i>
17	<b>INPUT STATUS (ONLY GSM800)</b> <u>Reply</u> : SMS "inp 1 x;out 2 x" x=status (on, off, Disabled)	<i>password,STO,IN</i>

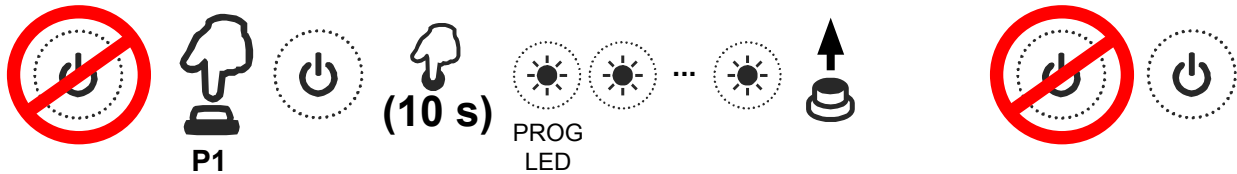
## 5.3 - CONFIGURATION SMS

n.	DESCRIPTION	SMS TEXT
18	<b>TOTAL RESET OF THE PARAMETERS AND DELETION OF ALL THE MEMORIZED NUMBERS</b> It completely deletes the memory, restoring the factory settings.	<i>password,RESET</i>
19	<b>CHANGE THE PASSWORD</b> <u>Syntax</u> : xxxxx is the new password. The command PWD is followed by twice the new password. Only <b>numeric</b> and <b>5 digits long</b> passwords are permitted.	<i>password,PWD,xxxxx,xxxxx</i>
20	<b>CONFIGURATION OF OUTPUT FUNCTION</b> <u>Syntax</u> : x = output number (1 or 2 *); y = FUNCTION (M = impulsive 500ms, B = ON/OFF, T = timer; z = time from 1 to 9999 s). The outputs are configured as <i>impulsive</i> by default. If the outputs are configured as <i>ON/OFF</i> , it's not possible to activate them by a call; furthermore their status is restored in case of blackout.	<i>password,OUTRE,x,yz</i>

\* = the output 2 is available ONLY in GSM800 version.

n.	DESCRIPTION	SMS TEXT
21	<b>POWER-ON NOTIFICATION SMS</b> Syntax: ON = activated; OFF = deactivated	<i>password,PW,ON</i> <i>password,PW,OFF</i>
22	<b>INPUT ACTIVATION THRESHOLD (ONLY GSM800)</b> Syntax: x = input number (1 or 2); y = inhibition time before the alarm recognition (from 1 to 59 s)	<i>password,INIB,x,y</i>
23	<b>INPUT FUNCTION CONFIGURATION (ONLY GSM800)</b> Syntax: x = input number (1 or 2); y = FUNCTION (0 = N.C.; 1 = N.O.). Default: N.O.	<i>password,STO,x,y</i>
24	<b>TEXT OF THE SMS ASSOCIATED TO THE INPUT ALARM (ONLY GSM800)</b> Syntax: x = input number (1 or 2); y = text of the SMS to be associated to the alarm detected in the relative input. The text can contain only letters and/or numbers.	<i>password,TEXTx,y</i>

## 6 - Password reset



Switch the device OFF. Press the programming button **P1** and keep it pressed; switch the device ON keeping **P1** pressed for at least **10 seconds**. During this lapse PROG LED flashes quickly and intermittently. Release the button after it turns ON solid. Switch the device OFF and ON again.

## 7.1 - TECHNICAL SPECIFICATION

- Power supply	230Vac
- Operating temperature range	-20 / +50 (°C)
- Protection rating	IP20
- Max. power on relay	10A
- Telephonic module	SIM900 QBand
- SIM type	Standard

## 7.2 - SAFETY INFORMATION

The product at issue must be installed only by qualified technical personnel respecting the laws concerning the electrical installations. All the connections must be rated for a single-phase 230Vac power supply. For the disconnection from the power line, use an all-pole switch with contacts having a dimension of at least 3,5mm. Only suitable materials for the connections must be used to guarantee insulation that complies with current standards on the subject of electrical safety. The receiver only carries out ON/OFF commands and all safety devices required by the system must be arranged separately.

The functioning of the device next to radio, televisions, mobile phones or any other electronic devices, could generate interference. The device can be subject to external interferences, which can influence its proper functioning.

Do not install the device next to pacemakers or any other electronic medical devices, because it could interfere with the correct functioning of these devices. We inform that GSMxxx works using radio frequency and not one telephonic company can guarantee the connection to the device at any moment. For this reason the product cannot be used with personal emergency systems.

Furthermore the user is totally and exclusively responsible of the remote command of the door by means of the product GSMxxx. Teleco Automation Srl declines any responsibility for direct or indirect damages caused by possible malfunctioning, wrong installation or external causes like power supply black-out or GSM signal missing.

### **Notes:**

- A telephone number cannot be memorized more than one time.
- In order to delete a telephone number by means of the command "*password,DAC,xxxxxxx*", it is necessary to write it with the same dialing code earlier used for the command "*password,MAC,xxxxxxx*".

Hereby Teleco automation s.r.l. declares that the product complies with the essential requirements and other relevant provisions, established by the Directive 1999/5/EC. The declaration of conformity can be consulted on the web site: [www.telecoautomation.com/ce](http://www.telecoautomation.com/ce).

**In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.**



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