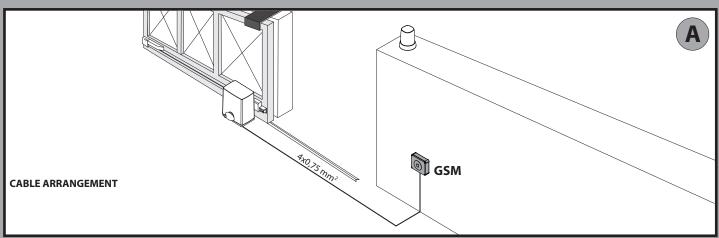
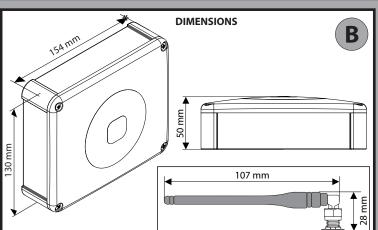
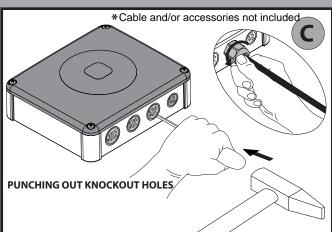
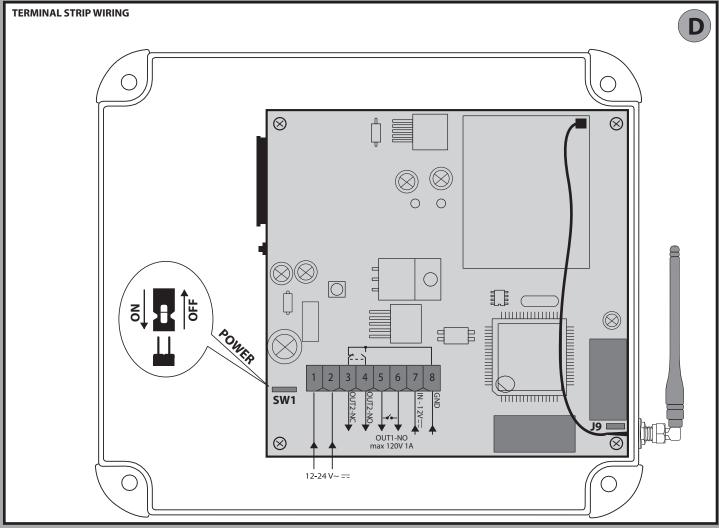


-QUICK INSTALLATION-







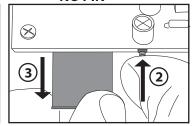


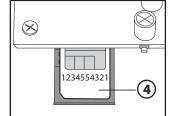
ENGLISH

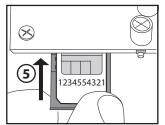
INSERTING THE SIM CARD

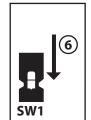
NO PIN



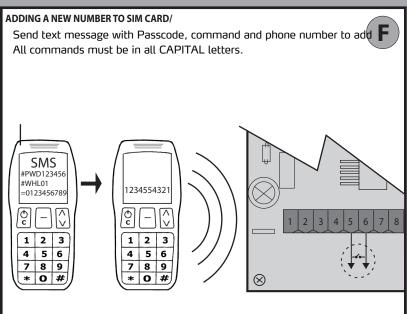


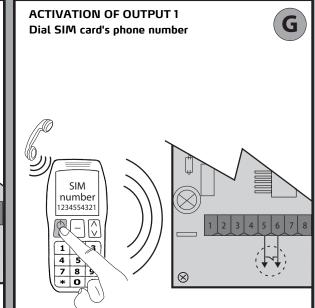


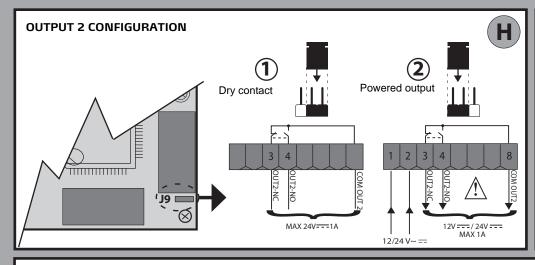


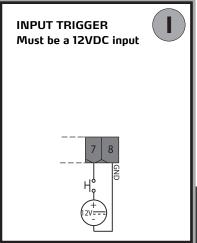


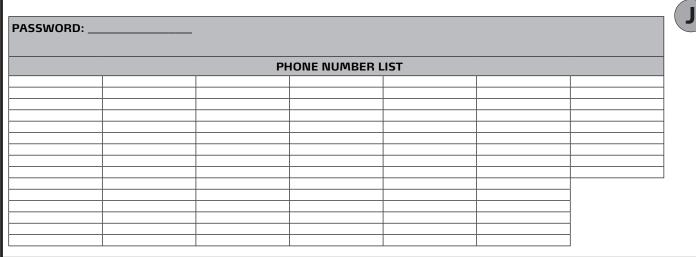
E













INSTALLER WARNINGS

WARNING! Important safety instructions. Carefully read and comply with all the warnings and instructions that come with the product as incorrect installation can cause injury to people and animals and damage to property. The warnings and instructions give important information regarding safety, installation, use and maintenance. Keep hold of instructions so that you can attach them to the technical file and keep them handy for future reference.

This product has been designed and built solely for the purpose indicated herein. Uses other than those indicated herein might cause damage to the product and create a hazard.

The Manufacturer of this product (hereinafter referred to as the "Firm") disclaims all responsibility resulting from improper use or any use other than that for which the product has been designed, as indicated herein, as well as for failure to apply Good Practice in the construction of entry systems (doors, gates, etc.) and for deformation that could occur during use.

Installation must be carried out by qualified personnel (professional installer, according to EN 12635), in compliance with Good Practice and current code.

Before commencing installation, check the product for damage.

Make sure the stated temperature range is compatible with the site in which the automated system is due to be installed.

Do not install this product in an explosive atmosphere: the presence of flammable fumes or gas constitutes a serious safety hazard.

Disconnect the electricity supply before performing any work on the system. Also disconnect buffer batteries, if any are connected.

Only use original spare parts for any maintenance or repair work. The Firm disclaims all responsibility for the correct operation and safety of the automated system if parts from other manufacturers are used.

Do not make any modifications to the automated system's components unless explicitly authorized by the Firm.

Dispose of packaging materials (plastic, cardboard, polystyrene, etc.) in accordance with the provisions of the laws in force. Keep nylon bags and polystyrene out of reach of children.

WARNING! safety extra low voltage wires must be kept physically separate from low voltage wires.

Anything that is not explicitly provided for in the installation manual is not allowed. The operator's proper operation can only be guaranteed if the information given is complied with. The Firm shall not be answerable for damage caused by failure to comply with the instructions featured herein. While we will not alter the product's essential features, the Firm reserves the right, at any time, to make those changes deemed opportune to improve the product from a technical, design or commercial point of view, and will not be required to update this publication accordingly.

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INSTALLATION MANUAL

1) GENERAL INFORMATION

GSM receiver designed to command relay contacts through recognition of authorized telephone numbers. The GSM receiver can store up to 99 telephone numbers. These numbers activate the output OUT 1 through a call. You can store up to 8 recipients who, if authorized, receive messages from the receiver. Furthermore, the two outputs can be controlled either on a timed basis or through SMS text messages.

2) TECHNICAL SPECIFICATIONS		
Power supply	12V/ 24V ~ + -10%	
Operating temperature range	-5 / +50°C	
OUT 1	NO contact (Max. 120V~/24 1A)	
OUT 2	NO/NC contact (Max. 24V 1A)	
IP rating	IP55	
Band	Tri-Band GSM/GPRS 900/1800/1900 MHZ	
Max. telephone numbers stored in memory	99	
	GSM	
SIM card type	3V / 1.8V	
Antenna	3.5dB – 5dB	
Typical stand	by power demand	
Supply voltage	Consumption (mA)	
12	<120mA	
12~	<200mA	
24	<60mA	
24~	<120mA	

- 3) TUBE ARRANGEMENT FIG. A
- 4) DIMENSIONS FIG. B
- 5) PUNCHING OUT KNOCKOUT HOLES FIG. C
- 6) TERMINAL STRIP WIRING FIG. D

Terminal	Description
1-2	Power supply 12V / 24 ~
8-3	OUT 2 NC contact (max. 24V — 1A)
8-4	OUT 2 NO contact (max. 24V — 1A)
5-6	OUT 1 NO contact (max. 120V ~ / 24V — 1A)
7	Input <in></in>

7) INSERTING THE SIM CARD FIG. E

Use SIM card without PIN/PUK number.

Note: you need to remove the SIM card PIN request before inserting it in the board, otherwise the device will not work. To do this, insert the SIM card in a telephone and disable the PIN request (there's usually a security menu that allows you to do this). If you don't do this, after turning the phone on 3 times, you will be asked for the PUK number again to reset the SIM card.

- 8) ADDING A NEW NUMBER TO SIM CARD FIG. F
- 9) ACTIVATING THE OUT 1 CONTACT OUTPUT FIG. G

10) OUT 2 CONFIGURATION FIG. H

Ref. 1 - Free contact (max. 24V ____ 1A)

Ref. 2 - Powered contact (based on 12V/24V --- supply voltage)

11) USE OF <IN> INPUT FIG. I

Connect 12V — to produce increased counter count. 12) PERSONAL LIST FIG. J

NOTE: the following convention is used herein:
- Activation OUT 1 --> 5-6 terminals output NC
- Activation OUT 2 --> OUT 2 --> 8-4 terminals output NC
- Activation OUT 2 --> OUT 2 --> 8-4 terminals output NC
The default password is 123456. The code to be sent MUST NOT contain spaces and must be written in UPPER CASE. Every time a text message is sent, the controller answers the sender with a reply text.

GSM signal quality

Checking the GSM signal: Excellent signal =31 Good signal Sufficient signal =16 =12

Poor signal <12
Should the signal be lower than 12, find a new location for the board or switch to a telephone provider with a better signal in the area in question.

Code to be sent	Sample text to be sent	Sample text received
#PWDpassword#CSQ?	#PWD123456#CSQ?	CSQ=<23>
N.B. If you do not receive a reply text, it probably means you are not in an area covered by the telephone provider's GSM signal		

Adding a new telephone number to the memory

Adding a new telephone number to the memory (maximum 99 numbers). The telephone number must contain no more than 10 digits (no country code)

Code to be sent	Sample text to be sent	Sample text received
	#PWD 123456 #WHL 01 = 0123456789	WHL01: 0123456789
#PWD password #WHL position in memory=telephone number	#PWD 123456 #WHL 02 = 9876543210	WHL02: 9876543210
number	#PWD123456#WHL99=xxxxxxxxxx	WHL99: xxxxxxxxxx

In the example, the telephone number 0123456789 is added in position 1; telephone number 9876543210 in position 2; and telephone number xxxxxxxxxx in position 99

How to activate output OUT1

Dial the telephone number of the SIM card inserted in the board from a telephone with a number entered in the memory. The call will automatically be rejected, so there is no charge. The board activates output OUT1.

Changing the password			
How to change the password to manage the various programming functions. The password must be made up of 6 digits. The default password is 123456. All examples in this manual will have 123456 as the password.			
Code to be sent Sample text to be sent Sample text received			
#PWDpassword#CAPnew password #PWD123456#CAP321654#CAP321654 CAP: 321654			
In the example, the password is changed to 321654. #PWD321654#			

OUT1 output activation time			
Set the OUT1 output activation time in the range 1 to 99 sec. (default setting 1 sec.) when the controller receives a call from a number stored in the memory.			
Code to be sent Sample text to be sent Sample text received			
#PWD password #GOT out1 output activation time in sections	#PWD 123456 #GOT 05	GOT: 05	
In the example, output OUT1 is activated for 5 sec, whenever the controller receives a call from a number stored in the memory.			

Checking a telephone number stored in a given position in the memory		
Checking a stored mobile number based on its position in the memory.		
Code to be sent Sample text to be sent Sample text received		
#PWD password #WHL position in memory?	#PWD123456#WHL02?	WHL02: 9876543210
In the example, position 02 in the memory is queried.		

INSTALLATION MANUAL

Deleting a number stored in the memory			3
To delete a telephone number stored in the memory.] [
Code to be sent Sample text to be sent Sample text received			5
#PWD password #WHL position in memory D	#PWD123456#WHL02D	WHL02-OK	۱,
In the example, the telephone number stored in position 02 in the memory is deleted			1

In the example, the telephone number stored in position 02 in the memory is deleted.

NB: to delete the number stored in position 99, send a text message like the one in the example: #PWD123456#WHL99D=0000000000

Deleting all numbers stored in the memory		
All telephone numbers stored in the memory are deleted.		
Code to be sent Sample text to be sent Sample text received		
#PWDpassword#WHL99D	#PWD123456#WHL99D	DELALL-OK

Access mode		
Free access. Access is granted to all telephone r	numbers that call, even those not stored in the me	emory
Code to be sent Sample text to be sent Sample text received		
#PWDpassword#ACM0 (zero)	#PWD123456#ACM0	ACM-OFF
Controlled access (default setting). Access is granted only to telephone numbers that are stored in the memory.		
Code to be sent	Sample text to be sent	Sample text received
#PWDpassword#ACM2	#PWD123456#ACM2	ACM-ON

Advanced functions

Enabling advanced functions		
To enable input <in> counter. To enable sending of messages. 1=ON 0=OFF (default setting)</in>		
Code to be sent Sample text to be sent Sample text received		
#PWD password #CTR =on off #PWD 123456 #CTR =1 CTR=<1>		
In the example, the input <in> counter and sending of messages are enabled</in>		

Adding recipients to receive messages			
Adding new recipients to the memory who, if authorized, will receive messages from the controller based on whichever functions are enabled below. (from 1 to 8)			
Code to be sent Sample text to be sent Sample text received			
#PWDpassword#TELrecipient position number=telephone number programmed for receiving messages	#PWD123456#TEL1=9876543210 #PWD123456#TEL6=xxxxxxxxxxx	TEL1: 9876543210 TEL6: xxxxxxxxxx	
In the example, the telephone number 9876543210 is added in position 1 and vvvvvvvvv in position 6			

Message recipient list query			
Lists all telephone numbers stored in the memory authorized to receive messages.			
Code to be sent Sample text to be sent Sample text received		Sample text received	
#PWDpassword#TEL?	#PWD123456#TEL?	TEL1: 9876543210 TEL8: xxxxxxxxxxx END	

Authorizing recipients to receive messages			
The command to be sent is made up of 8 digits: 1=ON 0=OFF			
Code to be sent	Sample text to be sent	Sample text received	
#PWDpassword#RERN=on off on off	#PWD 123456 #RERN =10011000	RERN: 10011000	

In the example, the numbers stored in positions 1, 4 and 5 are authorized to receive messages.

Checking recipients to receive messages			
Checks which recipients are authorized to receive messages.			
Code to be sent	Code to be sent Sample text to be sent Sample text received		
#PWDpassword#RER?	#PWD 123456 #RER?	RERN: 10011000	
In the example, the numbers stored in positions 1, 4 and 5 are authorized to receive messages.			

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INSTALLATION MANUAL

Warning message when <IN> contact is closed

Set the message that will be sent to authorized recipients in the memory when <IN> contact is closed.

The message must be no more than 100 characters long. Only use letters and numbers use, 715, 725, do not use special characters (a, 70, 7 etc.).		
Code to be sent	Sample text to be sent	Sample text received
#PWD password #STR =message text	#PWD123456#STR=Gate closed	String: Gate closed
The management of the state of		

The message that will be sent is: GATE CLOSED.

Warning message when <in> contact is opened</in>		
Set the message that will be sent to authorized recipients in the memory when <in> contact is opened. The message must be no more than 100 characters long. Only use letters and numbers abc/ABC/123; do not use special characters (&, %,*, etc.).</in>		
Code to be sent	Sample text to be sent	Sample text received
#PWD password #STO =message text	#PWD 123456 #STO =Gate open	String: Gate open
The massage that will be sent is: GATE OPEN		

Setting input <IN> partial counter

Set the number of times the <IN> contact is closed after which, or after multiples of which, a warning message is sent to authorized recipients. Min. 1
Max. 65535

Default setting 500 The command to be sent is made up of 5 digits:

Code to be sent	Sample text to be sent	Sample text received
#PWD password #COA =number of times contact must be closed before message is sent	#PWD 123456 #COA =00005	COA=00005
In the example massage conding has been set to the 5th 10th 15th time ato the <in> contact is closed</in>		

In the example, message sending has been set to the 5th, 10th, 15th time etc. the <IN> contact is closed

Setting advanced functions

Function 1: (default setting)

- The board counts the number of times input <IN> changes state. Every time the contact is closed.
- The board sends the warning message when the counter reaches the value set by command #COA.

Function 2:

- The board counts the number of times input <IN> changes state. Every time the contact is closed.
- Output OUT2 is activated when input < IN > first changes state. See #RLOP function for instructions on de-energizing the relay.
- The board sends the warning message when the counter reaches the value set by command #COA.

Function 3:

- The board counts the number of times input <IN> changes state. Every time the contact is closed.
- Output OUT2 is activated when input <IN> first changes state. See #RLOP function for instructions on de-energizing the relay.
- The board sends the #STR warning message every time input <IN> is closed.
- The board sends the warning message when the counter reaches the value set by command #COA.

Function 4:

- The board counts the number of times input <IN> changes state. Every time the contact is closed.
- Output OUT 2 is activated for 1 sec. every time input <IN> is closed.
- The board sends the warning message when the counter reaches the value set by command #COA.

Function 5

The board sends the #STR warning message every time input <IN> is closed.

Function 6:

- The board sends the #STR warning message every time input <IN> is closed.
- The board sends the #570 warning message every time input <IN> is opened.

Code to be sent	Sample text to be sent	Sample text received
#PWD password #CTC =function number	#PWD 123456 #CTC =4	CTC=<4>
Function 4 is enabled in the example.		

Checking the total number of times input <IN> has changed state Checks the total number of times input <IN> has changed state. The number increases every time the contact is closed. Code to be sent Sample text to be sent Sample text received INC: 00143 **#PWD**password**#COU?** #PWD123456#COU? In the example, the total number of times the input has changed state is 143.

Checking the partial number of times input <in> has changed state</in>		
Checks the partial number of times input <in> has changed state. The number increases every time the contact is closed and is reset when the value reaches the value set in #COA.</in>		
Code to be sent	Sample text to be sent	Sample text received
#PWDpassword#COT?	#PWD123456#COT?	INC: 00004
In the example, the partial number of times the input has changed state is 4.		

Counter reset		
Both the total and partial counters are reset to 0.		
Code to be sent	Sample text to be sent	Sample text received
#PWDpassword#CLA	#PWD123456#CLA	RECO-OK

MANUAL MODE:

Activation of outputs OUT1 and OUT2 for a given time

Outputs OUT1 and/or OUT2 are activated for a settable time. The outputs are independent.

Min. 1 sec., Max. 65535 sec.
Out1=1, Out2=2
The command to be sent to indicate the number of seconds is made up of 5 digits:

Code to be sent	Sample text to be sent	Sample text received
#PWD password #RLY output to be activated = length of time output stays active in seconds.	#PWD 123456 #RLY 2=5400	RLY2=05400

In the example, output 2 stays active for 1 and a half hours.

Checking output state		
Displays the seconds remaining, since relays were activated.		
Code to be sent	Sample text to be sent	Sample text received
#PWDpassword#RLY?	#PWD123456#RLY?	RLY1: 00000 RLY2: 04800
In the example, output 2 stays active for another 1 hour 20 minutes.		

Activating/deactivating outputs OUT1 and OUT2

The outputs are activated or deactivated. The outputs are independent.

Out1=1, Out2=2 1=ON; 0=OFF

Code to be sent	Sample text to be sent	Sample text received
#PWD password #RLOP output to be activated=command	#PWD 123456 #RLOP 2=1	RLOP2-ON
In the example, output OUT2 is activated.		

TIMED MODE

Special output functions

Function **0:** (default setting)
Normally deactivated outputs. Special functions are disabled. Normal mode.

Function 1

Normally activated outputs. Every time a call is made from telephone numbers stored in the memory, output OUT1 is deactivated for 10 sec. and, after 30 seconds, output OUT2 is deactivated for 5 sec.

Function 2:

.. Normally activated outputs. Programming deactivation of outputs based on time of day. Calls from telephone numbers stored in the memory are disregarded.

	Code to be sent	Sample text to be sent	Sample text received
	#PWD password #FTRY =function number	#PWD 123456 #FTRY= 2	FTRY=<2>
Function 2 is enabled in the example			

Programming deactivation of outputs OUT1 and OUT2 based on time of day

Determines at what time individual outputs are deactivated and for how long.

8 times can be programmed.

33,WIM, TH, TT, G, K; BE CAREFUL TO GET THE COM	IIII, HI, HI, G, K; BE CAREFUL TO GET THE COMINIAS AND SEMI-COLON IN THE RIGHT PLACE.		
Code to be sent	Sample text to be sent	Sample text received	
#PWD password #SMW =seconds,minutes,hour,output deactivation time in seconds,number of times programmed,relay programmed;	#PWD 123456 #SMW =00,48,18,015,1,2;	SMW:00,48,18,015,1,2	

In the example, output OUT2 is deactivated at 18:48:00 for 15 sec.

Internal clock set		
Set time in 24-hour format		
SS,MM,HH,TTT,G,R; BE CAREFUL TO GET THE COMMAS AND SEMI-COLON IN THE RIGHT PLACE.		
Code to be sent	Sample text to be sent	Sample text received
#PWD password #TSET =seconds,minutes,hour;	#PWD 123456 #TSET =00,30,08;	TIME:00,30,08
In the example, the clock is set to 08:30:00.		

Board reset		
Restores the controller's factory settings. N.B. the telephone numbers stored in the memory are not deleted.		
Code to be sent	Sample text to be sent	Sample text received
*REST#password	*REST#123456	REST-OK

Checking software and hardware version				
Code to be sent	Sample text to be sent	Sample text received		
#PWDpassword#EDI?	#PWD123456#EDI?	<wt-009_lia>2009/8/08/10:45HW:1.0SW:1.0MW:2.3></wt-009_lia>		