

REMOTE GATE CONTROLLER

EN

USER GUIDE v1.1

Please read the user guide first, before starting to use ELDES Configuration Tool (**note: this software runs only on Windows OS!**)

PRODUCT NAME: REMOTE GATE CONTROLLER
BRAND: ELDES
MODEL: ESIM320-4G G1 / ESIM320-4G Q

EXAMPLES OF USING THE SYSTEM



1 x	1 x	2 x	
EN CONTENTS OF PACK			EN NOT INCLUDED

EN INSTALLATION

METALL →

> 20 cm
(> 7,874 inch.)
FROM THE POWER LINES

MIN -20°C (-4°F)
MÁX +55°C (131°F)

1.

2.

3.

4.

5.

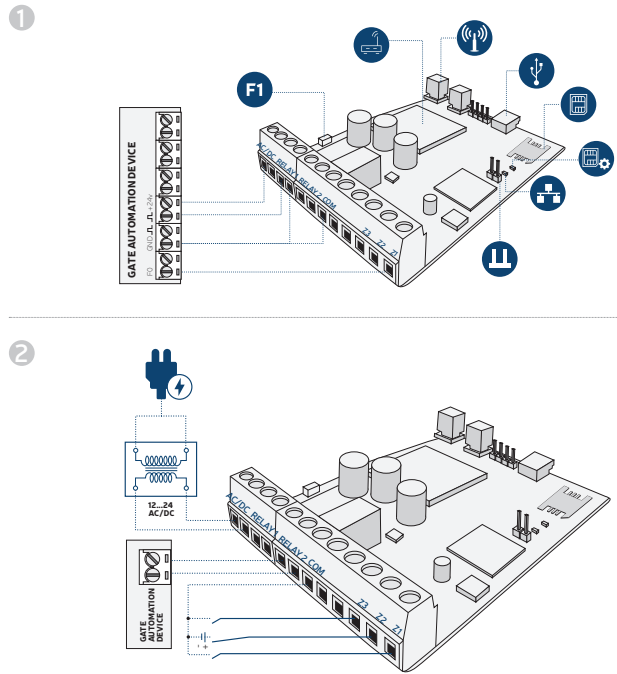
Number NR4: +441700XXXX110 is set.

- 1 Disable PIN code request.
- 2 Insert the SIM card into the device's SIM card slot holder.
- 3 Power up the system and wait until LED indicator SIM STAT lights up, indicating SIM card status. Once the indicator SIM STAT lights OFF, the illuminated indicator NETW lights up, indicating that the system has successfully connected to the required network.
- 4 Set the phone number for Admin 1 (NR 1); set date and time; change the default SMS password; you may also change the system's language. Once the system is configured, it is ready to use.
- 5 Example of the system's SMS response to the requested command.

! For more system configuration, see **SMS CONFIGURATION**.

! Before installing the system, please wire it up using the wiring methods example and connect both antennas.

EXAMPLE OF WIRING DIAGRAMS



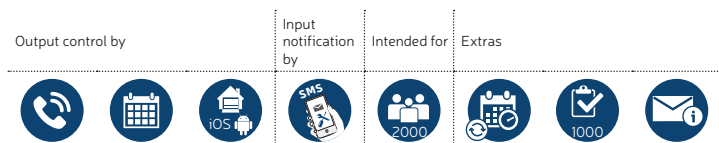
EN	
Main Unit & Connectors	
	Antenna SMA type connector (2 antennas in models ESIM320-4G G1 / ESIM320-4G Q)
	Mini USB port
	SIM card slot / holder
	ESIM320-4G G1 Modem frequency Global; ESIM320-4G Q Modem frequency EU
	Red LED, indicating SIM card status
	Green LED, indicating signal strength
	Pins for restoring default settings
F1	0.5A fuse
AC/DC	Power supply terminals
RELAY 1-2	Output C1-C2 terminal
COM	Common terminal
Z1/Z3	Low-level (negative input terminal)
Z2	High-level (postive input terminal)

EN	
LED Indicator Functionality	
SIM Start indication	SIM card status
OFF	No mains power/ successfully connected to GSM/4G network
Steady on	SIM card is attempting to connect to the GSM/3G/4G network / SIM card is not present / PIN code enabled
NETW indication	Signal strength
OFF	No GSM/3G/ 4G signal
Flashing every 1 sec.	Poor
Flashing several times per sec.	Medium
Steady on	Excellent
Gate automation elements	
FO	Fault output; open collector type
+24V	Power supply output for powering aux. equipment

	EN
GND	Common terminal
	Pulse input

GENERAL OPERATIONAL DESCRIPTION

MAIN FEATURES:



When a phone call is made to the phone number of the SIM card inserted in ESIM320-4G G1 / ESIM320-4G Q, the system will verify if the caller's phone number exists in the device database. If the caller is one of the 5 administrators or the phone number belongs to one of the 2000 database users, the system will reject the phone call, thus making the phone call free of charge, and open the gate. If the phone number is not recognized, the system will reject the phone call and ignore it. The gate controller can also control your gate automatically in accordance with the scheduled time or by sending an SMS text message from the administrator's phone number. By connecting a sensor to one of the 3 inputs, the administrators can receive SMS text messages regarding the gates that failed to close during the set time period.

CONFIGURATION METHODS

REMOTE CONFIGURATION BY:



- System configuration by USB cable. In order to configure the system by USB cable, the user must plug the specified cable into personal computer's USB port and launch the pre-installed Eldes Config. Configuration by USB cable and Eldes Config does not require the external power supply to be connected to the device. However, the device will NOT fully function when USB-powered. The user will be able to carry out some major part of system's configuration, with the exception of those functions, which are strictly related to LTE modem (disabled during the selected configuration period).



ELDES Configuration Tool software is secured with SMS password. The default SMS password is **0000** (see **SMS CONFIGURATION**).







- ESIM320-4G G1 and ESIM320-4G Q models are compatible only with 4G SIM cards. For more details, please contact your operator.
- We also recommend you **to disable call forwarding, voice mail/text message reports on missed/busy calls and similar services** that might cause incorrect system operation. Please contact your operator for more details on these services and how to disable them.
- For maximum system reliability we recommend you do NOT use a Pay As You Go SIM card. Otherwise, in the event of insufficient credit balance on the SIM card, the system would fail to make a phone call or send SMS text messages.
- We advise you to choose the same GSM provider for your system as for your mobile phone. This will ensure the fastest, most reliable SMS text message delivery service and phone call connection.
- Even though the installation process of the device is not too complicated, we still recommend to perform it by a person with basic knowledge in electrical engineering and electronics to avoid any system damage.



- Please use the 10-24V 50Hz/60Hz ~500mA max. AC or 10-24V 500mA max. DC power supply unit that meets the EN 60950-1 standard. Any additional device you connect to the system, such as a computer, must also be powered by an EN 60950-1 approved supply. When connecting the power supply to the system, switching the polarity terminal places does not have any affect.

TECHNICAL SPECIFICATIONS

Supply voltage	10-24V 50Hz/60Hz ~ 500mA max / 10-24V  500mA max
Current used in idle state	Up to 50mA
SIM card type	Nano-SIM
ESIM320-4G G1	4G(LTE) (28)700/(20)800/(18,19,26,5)850/(8)900/(4)1700/(3)1800/(2)1900/(1)2100/(7)2600 MHz; 3G (UMTS) - (5)850/(8)900/(2)1900/(1)2100 MHz; 2G (GSM) - 850/900/1800/1900 MHz
ESIM320-4G Q	4G(LTE) (28)700/(20)800/(8)900/(3)1800/(1)2100/(7)2600 MHz; 3G (UMTS) - (8)900/(1)2100 MHz; 2G (GSM) - 850/900/1800/1900 MHz
Number of outputs	2
Output type	Relay; NO (normally-open) or NC (normally-closed) - configurable
Maximum commuting output values	24V 50Hz/60Hz ~ 0,5A / 24V  1A
Number of "low" level (negative) inputs	2
Number of "high" level (positive) inputs	1
"Low" level (negative) input value range	0... 16V  -0.8... -0.4mA
"High" level (positive) input value range	5... 50V  0.17... 1.7mA
Default inputs connection type	NO (normally-open)
Degree of protection	Complies with IP 20
Dimensions	87x107x29mm
Operating temperature range	-20...+55 °C
Humidity	0-90% RH @ 0... +40°C (0-90% RH @ +32... +104°F) (non-condensing)

SMS CONFIGURATION



The system supports a large number of functions that can be easily configured using a personal computer with installed Eldes Configuration Tool software and Eldes Cloud web interface. This section covers just the basic system configuration using the SMS text messages.



!!! Make sure you don't leave any spaces at the beginning or end of the message. If you receive the message "wrong syntax", please check your message and try again.

- Change the SMS password.** Please change the default SMS password (0000) to any other 4-digit password (Device will not reply to any of SMS messages until SMS password is changed):
0000 PSW ssss
Value: ssss – new 4-digit SMS password.
Example: 0000 PSW 2568
- Set administrator phone number.** The system supports up to 5 administrator phone numbers that are permitted to configure and control the gates by free of charge phone call (drop-call) and SMS text messages. After setting up the first administrator (NR 1) phone number, the system will authorize to perform further system configuration by SMS text messages. To do so, please send the following command to the system's phone number from your mobile phone (using the device without entered administrator number is forbidden):
ssss NRn:4417011XXXXX
Value: ssss – 4-digit SMS password; n – administrator slot number, range - [1... 5].
Example: 2568 NR1:44170911XXXX1



+44610XXXXX  44610XXXXX 



The same command is used to change the administrator phone number that is already set up.

- Remove administrator.** In order to remove the administrator, send the following command to the system's phone number from other administrator's phone number:
ssss NRn:DEL
Value: ssss – 4-digit SMS password; n – administrator slot number, range - [2... 5]
Example: 2568 NR2:DEL



Removal of NR1 phone number is denied. The system allows to modify this phone number only.

- Administrator phone number list.** In order to receive an SMS text message containing the set up administrator phone number list, send the following command to the system's phone number from the administrator's phone number:
ssss HELPNR
Value: ssss – 4-digit SMS password.
Example: 2568 HELPNR
- Date and time.** You can set up system's date and time by sending the following command to the system's phone number from the administrator's phone number:
ssss yyyy.mm.dd hr:mn
Value: ssss – 4-digit SMS password; yyyy – year; mm – month, range – [01... 12]; dd – day, range – [01... 31]; hr – hours, range – [00... 23]; mn – minutes, range – [00... 59].
Example: 1111 2014.03.16 14:33
- Add user phone number.** The system supports up to 2000 users that are permitted to control the gates by free of charge phone call (drop-call). In order to add a user phone number, send the following command to the system's phone number from other administrator's phone number:
ssss N:4417011XXXXX
Value: ssss – 4-digit SMS password.
Example: 2568 N:44170911XXXX8



The phone number must be set up in international format without using the "plus" character in the front of the phone number. **The maximum length of a phone number is 14 digits!**



You can set up a name for the user phone number. In order to do so, please refer to the following example: 2568 N:44170911XXXX8:John



The user name is not mandatory and you may not want to use it when adding the user, for example: 2568 N:44170911XXXX8



In order to add multiple users simultaneously (up to 9 phone numbers per single SMS text message), please refer to the following example: 1111 N:44170911XXXX8:John 44170911XXXX9: 44170911XXXX3:Tom

- Remove user.** The removal of the user can be carried out in one of the following ways:
 - By user phone number.** Send the following command to the system's phone number from other administrator's phone number:
ssss D:nnnnnnnnnnnn
Value: ssss – 4-digit SMS password, nnnnnnnnnnn – user phone number.
Example: 2568 D:44170911XXXX8
 - By user name.** Send the following command to the system's phone number from other administrator's phone number:
ssss D:vvvvvvv
Value: ssss – 4-digit SMS password, vvvvvvv – user name.
Example: 2568 D:John



Before using the command that allows to remove the user by name, you must ensure that the user phone number has a name set up (ssss N:nnnnnnnnnn:vvvvvvv). Please refer to step 6 or ELDES Configuration Tool software.



In order to remove multiple users simultaneously (up to 9 phone numbers per single SMS text message), please refer to the following example: 2568 D:John 44170911XXXX9 Tom

- User phone number list.** In order to receive an SMS text message containing the list of all added user phone numbers, send the following command to the system's phone number from the administrator's phone number:
ssss GETALLNUMBERS
Value: ssss – 4-digit SMS password.
Example: 2568 GETALLNUMBERS



Based on the quantity of users added in the database, the system might reply with several to dozens of different SMS text messages.

- System information.** In order to view system date and time, signal strength, free and available space in the user database, input state (ALARM/OK), send the following command to the system's phone number from other administrator's phone number:
ssss INFO
Value: ssss – 4-digit SMS password.
Example: 2568 INFO

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