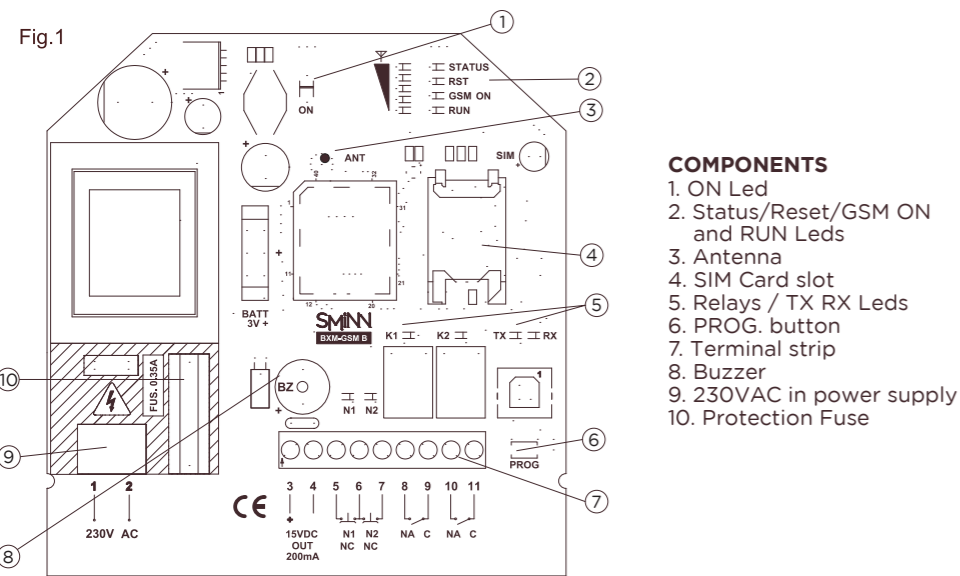


## TECHNICAL SPECIFICATIONS

### BOX M GSM B

Relay	2 1 amp. relays
User memory	Depends on the model
GSM Module	Quad Band 850/900/1800/1900 Mhz
SMS	Text mode
SIM	Built in socket
Power	230VAC
Antenna	1/4-1/8 lambda MMCX included
Temperature Range	-20°C / +65°C
Dimensions	182x145x65 mm
	Antenna not included
Ingress Protection	Ip54 (IP65 with cable glands)
Housing	ABS



#### COMPONENTS

1. ON Led
2. Status/Reset/GSM ON and RUN Leds
3. Antenna
4. SIM Card slot
5. Relays / TX RX Leds
6. PROG. button
7. Terminal strip
8. Buzzer
9. 230VAC in power supply
10. Protection Fuse

#### INDICATIONS

The receiver has visual and acoustic signs to indicate its status.

STATUS	Led STATUS	Led GSM ON	BUZZ
No SIM card	ON	OFF	OFF
No MASTER	ON	ON	Beep booting
PASSWORD 0000	Slow blinking	ON	Beep booting
Configured	OFF	ON	Beep booting

#### CE DECLARATION OF CONFORMITY

The company: ELSON SISTEMAS, S. L.  
Pol. Torrelarragoiti, P6 - A3 - 1ª  
48170 Zamudio - Vizcaya (SPAIN)

Declares:  
The product: BOX GSMB Receiver  
Manufactured by: ELSON ELECTRÓNICA, S.A.  
Under the trademark: **SMINN**  
For use in: Residential, commercial or light industry environments.

This device meets the provisions contained in the article 3 of the R&TTE 1999/05/CE Regulation, as long as its usage is compliant to what was envisaged, having applied the following regulations:

Telecommunications: R&TTE, CE, FCC

Electromagnetic compatibility: EN 301489-1 v1.3.1 (2001-09)

EN 301489-3 v1.3.1 (2001-11)

Low tension: N 60730-1:2000

Zamudio, 2012.11.20

José Miguel Blanco Pérez  
Chief Technical Officer

**SMINN**

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info@sminn.com  
Pol. Torrelarragoiti, P6 A3 - 1ª  
48170 Zamudio Bizkaia  
SPAIN

#### USAGE RESTRICTIONS

Operation is not guaranteed when installed in different equipment than the specified one.

THE USAGE INSTRUCTIONS OF THIS DEVICE SHALL BE HANDED TO THE USER, WHO WILL HAVE THEM IN THEIR POSSESSION. IF THEY ARE MISLAID, THE USER CAN ASK FOR A COPY OR DOWNLOAD IT DIRECTLY FROM WWW.SMINN.COM

The manufacturer reserves the right to change the specifications of these systems as well as this manual without prior warning. The equipment must be manipulated only by specialized and/or skilled personnel.

#### WARRANTY

This product has undergone a complete TEST during its manufacturing process that guarantees its reliability and proper operation. The manufacturer provides 24 months of warranty to the product from the date printed in the product and against any anomaly that it may present in its appearance or operation.

Any damage caused by third parties, natural causes (flooding, fire, lightning, etc), arising from improper handling or installation, vandalism or any other cause non attributable to the manufacturer will void the warranty. The warranty only covers repairs or replacement of the damaged device.

Any expenses derived from assembling, travelling, transport, natural wear of parts, etc., and, in general, any expenses that are not part of the repairs or replacement of the damaged element of the system are excluded.

The installer/provider will ask the manufacturer for a RMA number or authorization for transport of the system in warranty. Without this previous requisite, the manufacturer will not be able neither to process nor provide warranty service.

#### WARNING

This product must be used in installations which has been conceived for, considering any other as improper use. The packaging must not be dumped in the environment. Keep products, packaging, wrapping, documentation, etc., out of the reach of children. Follow the current local, national or European regulations. The information contained in this document may have some mistakes that will be corrected in future editions. The manufacturer reserves the right to modify the contents of this document or the product without any prior warning.

#### WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

In accordance with the European Directive 2002/96/EC about waste electrical and electronic equipment (WEEE), the presence of this symbol (see symbol at the bottom of this text) in the product or in the packaging, means that this article shall not be disposed in local non-classified waste streams. It is the user's responsibility to dispose this product taking it to a collection point designed for waste recycling of electrical and electronic devices. The separate collection of this product helps optimize the waste sorting and recycling of any recyclable material and also decreases the impact on health and the environment. For more information about the correct wasting of this product, please contact the local authority or the distributor where you acquired this product.

#### INSTALLATION AND WIRING

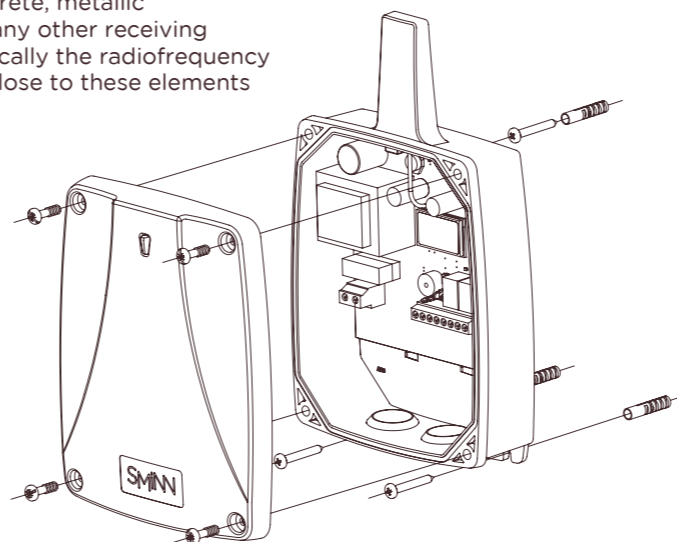
This SMINN device is designed to be easily fixed on a wall using the provided screws and wall plugs.

Before connecting the device to a power supply make sure the power supply is powered off. Installation shall be done by specialized personnel using adequate wiring taking into consideration that devices that are always powered on must have a power off override near them (like a Miniature Circuit Breaker).

Internal connections shall be done following the indications depicted in the silk screen printing of the board. Once the device is programmed and verified, close it using the supplied lid and screws.

SMINN RECEIVERS HAVE AN EXTERNAL LIGHT TO INDICATE WHETHER THE DEVICE IS POWERED ON OR OFF

**Note:** Reinforced concrete, metallic componentes and/or any other receiving device reduce dramatically the radiofrequency signal, so installation close to these elements should be avoided.



REV.0413

# BOX M GSM B

## GSM RECEIVER

### INSTRUCTION MANUAL



**SMINN**

innovative in electronics

## DESCRIPTION

SMINN's GSMB receiver is developed with state of the art electronics. It includes a quad-band receiver with capacity to store between 100 and 2000 users. Being able to register users via GSM, USB or programming switch makes it simple to use and comfortable.

They are designed to send the activation/desactivation order in home automation equipments and control easily:

Alarm, security and surveillance systems.  
Lights, rolling shutters, awnings, doors, accesses...

Each device is built with high quality components and material and the latest technology, complying with current regulations for use in residential, commercial and light industry installations.



## INITIAL CONFIGURATION

The SMINN GSM B can work in different, parameterizable modes. It is advisable to configure the device via SMS or USB using the GSMTTool application, if available. If using GSMTTool, do not connect the SIM card and power the device via USB. In any case, it is advisable to start out adding the first user (see USER MANAGEMENT), which will be, unless changed, the device master user. Additionally, it is also advisable to change the administration password (the default one is '0000'). If no user is added to the device it will work in public mode, granting access to any call to its phone number via the K2 relay.

## MANEUVER MODES

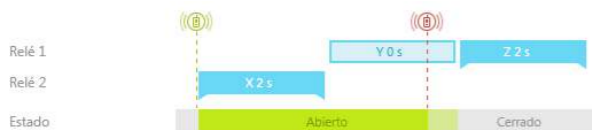
The device can work in any of three maneuver modes:

**Two channels:** This mode activates the relay assigned to each user upon receiving a call. It is useful in installations with two devices or two distinct modes.



X and Z are the configured timings for the signals in each relay.

**Open / Close:** This mode uses the K2 relay to open the gate upon receiving a call and the K1 relay to close the gate upon receiving the next call. It is possible to specify an override security time to close the gate automatically; if left unspecified the gate must be closed via phone call.



X is the configured timing for the opening signal in the K2 relay, Y is the security override timing to close the gate automatically and Z is the configured timing for the closing signal in the K1 relay. If Y is set with '0' the gate will only close via phone call.

**Automatic ciclc:** This mode uses the relay assigned to each user to open the gate upon receiving a call and waits a configured time before using the same relay to close the gate. It is possible to override the waiting time via a phone call. If the waiting time is not set the gate will only close via a phone call.



X is the configured timing for the opening signal, Y is the delay to close the gate automatically and Z is the configured timing for the closing signal. If Y is set with '0' the gate will only close via phone call.

## DIGITALS INPUTS

The SMINN GSM B receiver has two configurable digital inputs for alarm use. Each input can be configured independently with the following parameters:

- Contact type: Normally Open contact / Normally Closed contact
- ON time: Time the input has to be activated to produce an alarm
- OFF time: Time the input has to be deactivated to stop producing an alarm.
- Restore time: Time since an alarm has stopped until a new alarm can be produced.

Alarms produce SMS texts for all subscribed users. The SMS text can be customized for each input.

## USER MANAGEMENT

The device is available in different models for 100, 200, 450, 1000 and 2000 users. The first user to be added is the device master, which can be changed later. The master user can use any configuration SMS. The system supports any number of administrator users aside from the master. Users can be added via a call pressing the PROG button, via SMS or via GSMTTool.

Each user will be added with the following information:

- Phone number: The system supports up to 15 digits with international prefix (ITU-T E.164 recommendation)
- Access relay: Relay that will be used in two channel and automatic cycle modes.
- Timetable: Hour interval in which the system will grant access to the user. It can be unlimited.
- Use limit: Number of accesses the system will grant to the user. It can be unlimited.
- Administrator: Establishes whether the user is an administrator or a normal user.
- Enabled: Establishes whether the user is enabled in the device or not.
- Inputs: Alarm input subscription for the user.

Administrator users can use most of the configuration SMS and can, therefore, manage the device.

## ACCESS EVENTS

The SMINN GSM B receiver has a rotative event memory for up to 8000 events. Those events can only be read using the GSMTTool application via USB. For the event system to work the device needs to be configured with the correct date and time (see SMS GUIDE) and have a button battery instaled to keep the clock going when power is out. The battery must be installed with the device powered on.

## SMS GUIDE

Configuration SMS are only valid for adminsitator users and the master user. All comma separated parameters can be ommited both selectively (omitting just a parameter but leaving the commas) or from a parameter onward (ending the configuration message early). Phone numbers only support numbers and the + character for the interation prefix, if used. Ex:#0000#NEWU#+3495789056#B,2@ -> Not written parameters will tak their default values #0000#NEWU#+3495789056#B,2,,0,23@ -> UM and USES will take their default values

## Add/Modify user

The same SMS can both add or modify a user.

#PASSWORD#NEWU#NUM#IN,RL,UM,USES,START,END@

PASSWORD: 4 character administration password

NUM: User phone number. Maximum 16 digits with international code.

IN: 1 if the user is to be subscribed to the first input.

2 if the user is to be subscribed to the second input.

B if the user is to be subscribed to both inputs.

N if the user will not be subscribed to any input. **Default value**

RL: 1 to assign the K1 relay to he user.

2 to assign the K2 relay to the user. **Default value**

UM: U if it is a normal user. **Default value**

M if it is an administrator user.

USES: Access limit forthe user; Between 1 and 254, 255 means unlimited

accesses. **Default value: 255**

START: Initial hour for the timetable; between 0 and 23. **Default value: 0**

END: End hour for the timetable; between 1 and 24. **Default value: 24**

Ex: #0000#NEWU#+34957489056#B,2,U,255,0,23@

## Delete user

The master user cannot be deleted; to delete the master user you must change the master.

#PASSWORD#DELU#NUM@

Ex: #0000#DELU#957849056@

## Block user

A blocked user is still configured in the system but is not granted access while blocked. The master user cannot be blocked.

#PASSWORD#BLCK#NUM@

Ex: #0000#BLCK#957489056@

## Unblock user

Allows to unblock a user.

#PASSWORD#UBLK#NUM@

Ex: #0000#UBLK#957849056@

## Password change

The password must be 4 alphanumeric characters.

#PASSWORD#MODP#NEWPASSWORD@

Ex:#0000#MODP#1234@

## User replacement

Changes the phone number of an existing user keeping its configuration. The user master cannot be replaced this way (See Master replacement later).

#PASSWORD#REPL#OLDNUM#NEWNUM@

OLDNUM: Old user phone number. Maximum 15 digits with international code

NEWNUM: New user phone number. Maximum 15 digits with international code

Ex: #0000#REPL#957894056#917344557@

## PROG button block

#PASSWORD#PRGEN#MODE@

MODE: ON to allow registration via button. OFF to disallow it.

## Memory format

This message is only valid for the master user

#PASSWORD#FORMAT#ID\_MEM@

PASSWORD: 4 character administration password

IDMEM: U to format the user memory

L to format the event memory

B to format both memories

Ex:#0000#FORMAT#L@

## Master replacement

This message is only valid for the master user

#PASSWORD#NEWM#OLDNUM#NEWNUM@

NEWNUM: New master user number.

Maximum 15 digits with international code

Ex: #0000#NEWM#957894056#917434557@

## Mode configuration

#PASSWORD#MODE#M,T1,T2,T3@

PASSWORD: 4 character administration password

M: 2-CNL for two channel mode. **Default value**

C-AUT for automatic cycle mode

OP-CL for open/close mode.

T1: Time in seconds for the opening pulse in the K2 relay for two channel

mode (X) or for the corresponding relay in the other modes (X).

Between 1 and 255 seconds

T2: Time in seconds for the opening pulse in the K1 relay for two channel

mode (Z) or delay between opening and closing for the rest of the

modes (Y). Between 0 and 255 seconds if Y and between 1 and 255

seconds if Z

T3: Time in seconds for the closing pulse for automatic cycle and

open/close modes (Z). This parameter must not be used for two

channel mode. Between 1 and 255 seconds

**Default times are: 2 seconds for X and Z**

**10 seconds for Y.**

Ex:#0000#MODE#C-AUT,3,30,2@

## Input configuration

#PASSWORD#PLRXY#INx#MODE,TON,TOFF,TRSTR,BASE@

INx: IN1 to configure the first digital input

IN2 to configure the second

MODE: OFF to deactivate the digital input. **Default value**

NC for normally closed contact with SMS.

NO for normally open contact with SMS.

NC-C for normally closed contact with lost call (GSM B 3G only).

NO-C for normally open contact with lost call (GSM B 3G only).

TON: Time the input has to be active to produce an alarm. Between 10 and

990. **Default value: 150**

TOFF: Time the input has to be inactive to stop producing an alarm.

Between 10 and 990. **Default value: 150**

TRSTR: Time interval during which the input is ignored after an alarm has been

produced. Between 1 and 99 minutes. **Default value: 5 minutes**

BASE: Time base for TON and TOFF.

0 for msec., 1 for sec. and 2 for min. **Default value: 0 (msec.)**

Ex: #0000#PLRXY#IN2#NC,70,200,5,0@

## Alarm SMS configuration

#PASSWORD#CNFG#SMS IN-x#TEXT@

SMS IN-x: SMS IN-1 for the first digital input or SMS IN-2 for the second

TEXT: Text that is sent to subscribed users when an alarm is produced. Max

120 characters

Ex:#0000#CNFG#SMS IN-1#FIRE ALARM IN WORK PLACE@

## Date configuration

#PASSWORD#UPDATE#Y,M,D,H,MN,S@

PASSWORD: 4 character administration password

Y: Date year in 2 or 4 digits

M: Date month (between 1 and 12)

D: Date day (between 1 and 31)

H: Date hour (between 0 and 23)

MN: Date minute (between 0 and 59)

S: Date second (between 0 and 59)

Ex:#0000#UPDATE#03,14,17,53,28@ (January 14th, 2013 17:53:28)

## Input status

#STATUS@

## Relay activation

#RLx#ON#TIME@ o #IN-x#ON@

RLx: RL1 for relay 1, RL2 for relay 2

TIME: Time in secs. If not set it uses the one configured with the mode.

**GSM SIM CARD'S PIN REQUEST MUST BE DISABLED FOR THE SYSTEM TO WORK**