

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.



CE DECLARATION OF CONFORMITY

The company	ELSON SISTEMAS, S.L Pol. Torrelarragoiti, P6-A3-1ª 48170 Zamudio - Bizkaia (SPAIN)
Declares	
The product:	BASE STATION CONTROLLER BXM-220
Manufactures by	ELSON ELECTRÓNICA, S.A.
Under the trademark:	SMINN
For use in: enviroments.	Residential, Commercial or light industry

This device meets the provisions as long as its usage is compilant to what was envisaged, having applied the following regulations:

Telecommunications:	EN 300 220-1 v1.3.1 (2000-09) EN 300 220-1 v1.1.1 (2000-09)
Electromagnetic compatibility:	2004-108-CE
Low Voltage	2006-95-CE

2010-01-15 Zamudio

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SMINN

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BOX M 220

BASE STATION CONTROLLER FOR ELECTRONIC LOCK

INSTRUCTION MANUAL



SMINN

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DESCRIPTION

SMINN's base station controllers are developed with state-of-the-art electronic devices. They provide a high degree of operating reliability and security.

Residential, commercial and light industry environments.

Equipped with a solid communication bus RS 485 that allows more mounting versatility and makes them more immune to interference.

This device meets the corresponding provisions as long as its usage is compliant to what was envisaged. Having applied the following regulations.

They are designed to provide the activation and movement order to SMINN motor controllers, alarms, access control and home automation systems, etc. They are suitable for industrial, commercial and/or residential environments.

These devices are built using high quality materials and components and the latest technology. They are devices that observe the current regulations for usage in residential, commercial and light industry environments.

OPERATION

When a code from a SMINN key-tag or keypad is received, the base station controller checks if it is already registered in the memory. If it is registered and not blocked, the relay will activate.

ERASE MEMORY

The memory can only be erased using SMINN's programming console and knowing its PIN, avoiding accidental or malicious erasures.

BLOCKING A CODE IN THE MEMORY

A transmitter code cannot be simply erased from the memory, but it can be blocked so it won't work anymore. Blocking codes in the memory can only be done using a SMINN programming console and knowing its PIN.

MANUAL PROGRAMMING

The steps to program the motor controller are detailed below.

1. Press and hold the K1 button (fig. 1-3).
2. Approach to the reader the key-tag you want to record. When the reader sends the code, the receiver memorizes it and it will beep twice as a validation signal. Now the programming button can be released and the memory remains open for 10 sec. to register new key-tags.
3. After 10 seconds since the last registration, the memory closes and changes into receiver mode.

BACKUP COPY

Although the device is protected against power line disturbances and electrical surges, it is important to keep a backup of the memory card in case of breakdown or damages caused by external circumstances such as electric storms, theft, improper handling, etc.

INSTALLATION

SMINN's Base-Station controller is designed to be easily fixed on a wall using the supplied wall plugs and screws. Before connecting or operating the device, the power supply switch or differential shall be disconnected. Specialized and/or skilled personnel will do the installation, using properly protected cable of enough gauge. Take into account that devices permanently connected to the mains need to have an accessible connection device (i.e. a magnetothermic switch). The wiring should be done following the instructions printed in the serigraphy of the circuit board. Make sure that the memory is inserted and properly configured. After programming and verifying the equipment, close the case with the supplied top.

SMINN'S BASE STATION CONTROLLERS ARE EQUIPPED WITH A LED TO LET KNOW IF THE DEVICE IS POWERED.

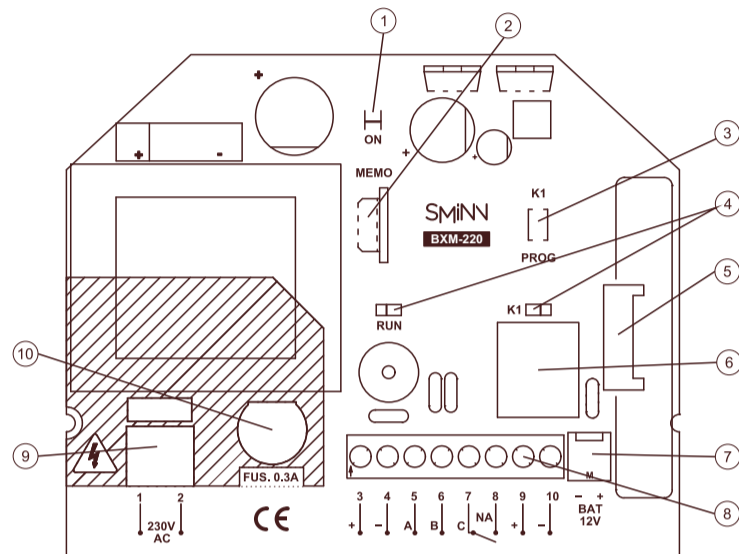
TECHNICAL CHARACTERISTICS

BOX M 220

230VAC

Power supply	Depending on model
Energy consumption	< 10 W
Communication	BUS RS485 Half / Duplex
Encryption	High security encryption
Code memorization	Plug-in memory of 250 codes
Memory expansion	500 / 1000 / 2000
Wiring	4-wire (recommended shielded cable CAT5)
Max. capacity of peripherals	2 RD125 readers + 2 KB120 keyboards
Maximum distance	> 200m
Watertight	IP54 - (IP65 with cable glands)
Operation temp.	-20°C / +85°C
Dimensions	185 x 145 x 65 mm
Casing	ABS
Optional cards	Tarjeta de radio TRSH
Optional battery	12V - 1.3A/h (97x52x43mm)

Fig.1



COMPONENTS

- | | |
|------------------------|----------------------------------|
| 1. ON Led | 6. Relay |
| 2. Memory | 7. Battery connector. |
| 3. PROG button | 8. BUS terminal block and relay. |
| 4. RUN (OK) LEDs/Relay | 9. 230VAC power connector |
| 5. Radio module. | 10. Fuse 0.3A |

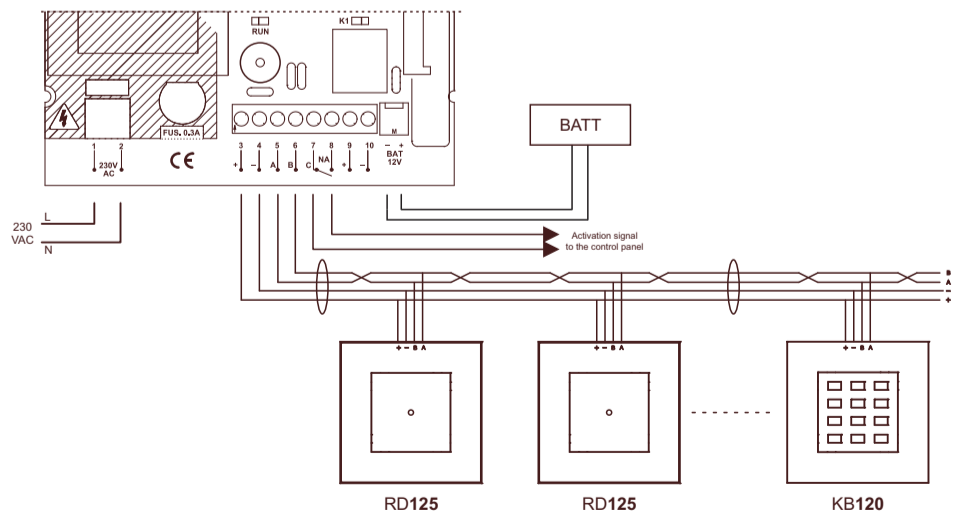
CONNECTION

Wiring is easy using the terminal block for three circuits. Readers are connected using just 4 wires on the terminals 3 to 6, with two wires for power and two for the RS485 data BUS.

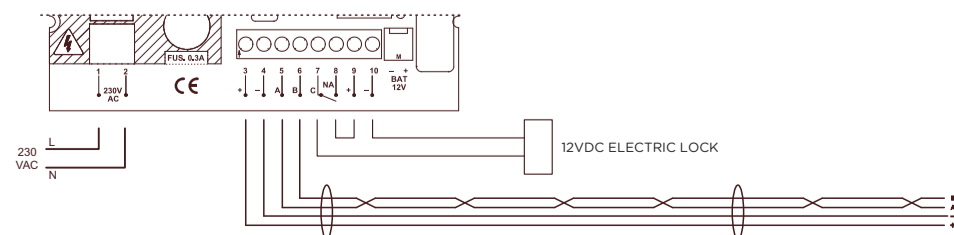
Terminal	Function	Note
1	Power	230V AC power input
2	Power	230V AC power input
3	Positive (+)	Power output to readers/keypads
4	Negative (-)	Power output to readers/keypads
5	Line (A)	Apply to the BUS RS485 line
6	Line (B)	Apply to the BUS RS485 line
7	Activation relay	Normally Open contacts
8	Activation relay	Normally Open contacts
9	Positive (+)	Power output for electric locks (12VDC)
10	Negative (-)	Power output for electric locks (12VDC)

The RS485 BUS is used in Half / Duplex mode with two wires: A and B. All elements of the BUS must have the same connection. A wires connected to A, and B to B (they must not be exchanged).

GENERAL WIRING

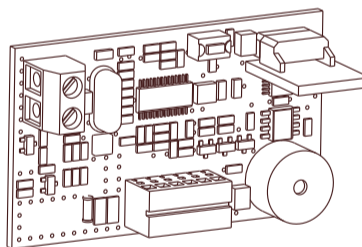


DIRECT CONNECTION TO THE ELECTRIC LOCK



OPTIONAL COMPONENTS

TRSH RADIO CARD



BATTERY 12V - 1.3A/h
*Optional battery

