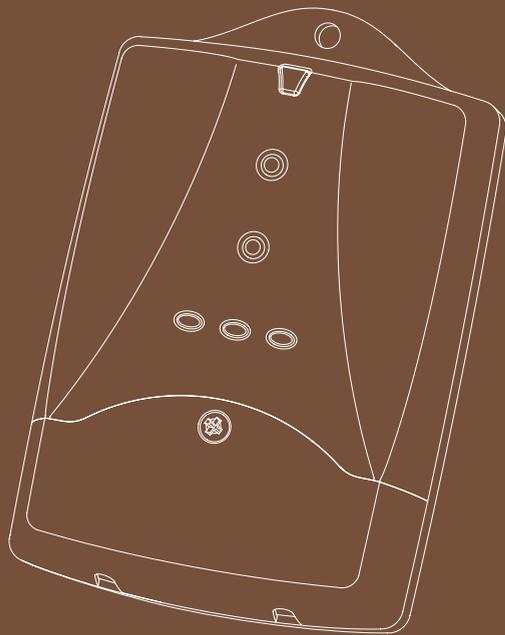


SAT M 434/868 RECEIVER

INSTRUCTION MANUAL



SMINN

innovative in electronics

DESCRIPTION

SMINN SAT M receivers are developed with state-of-the-art electronics and technology. They provide a high degree of operating reliability and security. They have a robust copy protection and anti-burglar system. They are designed to send the activation/deactivation order to SMINN motor controllers, alarm systems, access control systems, home automation systems, etc. They are suitable for industrial, commercial and/or residential environments.

Devices that are built using high quality materials and components and the latest technology. They are made taking into account the current regulations for usage in residential, commercial and light industry environments.

OPERATION

When receiving a SMINN transmitter code, the receiver checks if it is registered in the inserted memory. If it is registered and not blocked, it will activate the corresponding relay.

ERASING THE MEMORY

The internal memory can only be erased when an SMINN 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 an SMINN programming console and knowing its PIN.

MANUAL PROGRAMMING

Step by step instructions on how to program a receiver are detailed next. The first code must be stored following all these steps. For new codes after the first one, omit step 3:

1. Press and hold the programming button (fig. 1 - component 2).
2. Press the button of the transmitter channel we want to learn that will be assigned to K1 in the receiver. When receiving the code and channel sent by the transmitter, the receiver will store it in its memory and beep twice as a validation signal.
3. **ONLY TO STORE/LEARN THE FIRST CODE AND IF THE MEMORY IS CONFIGURED AS DUAL-CHANNEL. Press the channel button of the transmitter we want to assign to Output 2 of the receiver. When receiving the code and channel sent by the transmitter, the receiver will store/learn it in the memory and will beep THREE times as a validation signal.**
4. Release the programming button of the receiver.

Repeat this process with as many transmitter codes as you want to manually register in the memory, using the same channel assigned to Output 1 with the first transmitter.

Pressing any other channel will not have any effect.

REGISTRATION VIA RADIO

Depending on the level of security configured in the receiver's memory it is possible to register transmitter codes via radio.

Security level 1 (Basic).- Transmitter can be programmed in invitation mode knowing the PIN (the certified number of the installation) using a SMINN programming console. Invited transmitters are automatically registered by level 1 receivers.

Security level 2 (Intermediate).- Transmitters already in use can INVITE new transmitters that share the same PIN (the certified number of the installation).

Security level 3 (Advanced).- Emitters will be registered in the receiver manually. Radio-based registration is disabled.

CODE REPLACEMENT DUE TO LOSS

This function allows to replace a transmitter code stored in the receiver with a new one, be it due to loss or mislaying.

The replacement of a transmitter code is only possible with a SMINN programming console. Knowing the PIN of the installation and the code number of the lost transmitter is required.

BACKUP

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 receivers are prepared 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 RECEIVERS ARE EQUIPPED WITH A LED TO LET KNOW IF THE DEVICE IS POWERED

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

USE LIMITATIONS

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

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 THE WEBSITE WWW.SMINN.COM

The manufacturer keeps the right to modify the content of this document or the product 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 an 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 and wrapping 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.

La información que contiene este documento puede contener errores que se corregirán en siguientes ediciones. The information contained in this document may have some mistakes that will be corrected in future editions. The manufacturer keeps the right to modify the content of this document or the product without prior warning.

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT DIRECTIVE (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.



EC DECLARATION OF CONFORMITY

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

Declares that

The product SAT M 434/868 Receiver
Manufactured by ELSON ELECTRÓNICA, S.A.
Under the trademark **SMINN**
Created for Residencial, comercial and industrial use.

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:
EN 300 220-1 v1.3.1 (2000-09)
EN 300 220-1 v1.1.1 (2000-09)

Electromagnetic Compatibility:

EN 301489-1 v1.3.1 (2001-09)
EN 301489-3 v1.3.1 (2001-11)

Low Tension:

EN 60730-1: 2000

Zamudio 2010.03.30

José Miguel Blanco Pérez
Chief Technical Officer

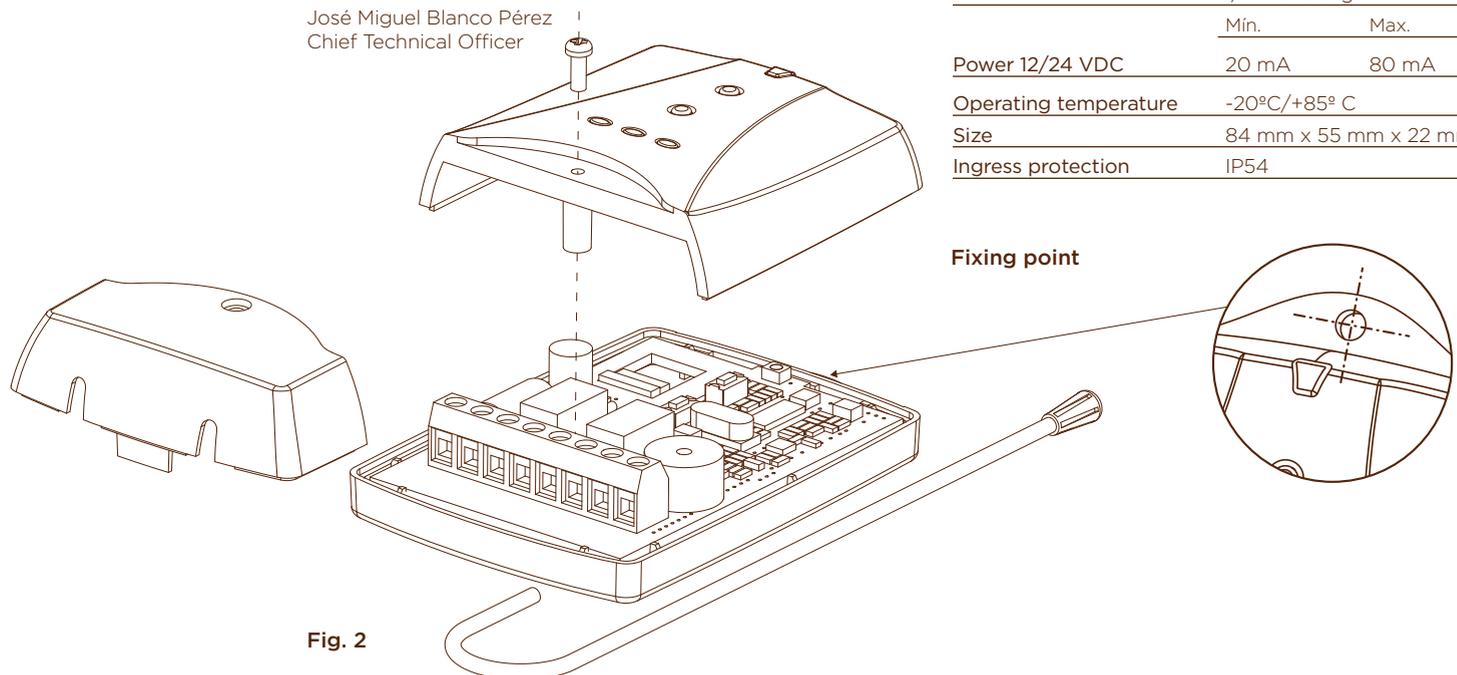
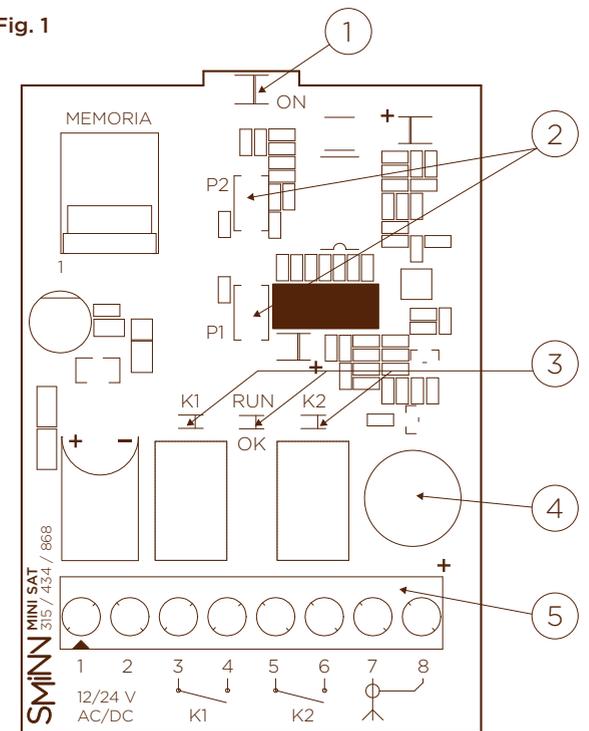


Fig. 2

Fig. 1



COMPONENTS

1. ON LED
2. Programming buttons
3. RUN OK LED/ Relay 1 / Relay 2
4. Buzzer
5. Relays and power supply connector

TECHNICAL CHARACTERISTICS

SAT M 315	315,00 MHz	12/24 V AC/DC
SAT M 434	433,92 MHz	12/24 V AC/DC
SAT M 868	868,30 MHz	12/24 V AC/DC

Sensibility	< -115 dBm	
Radio	Superheterodine	
Encoding	High security Crypto/Rolling	
Code memory	Plug-in memory 250/4000 codes	

Available channels for K1/K2 relays	1 to 4	
Antenna	1/4 Wavelength	
	Min.	Max.

Power 12/24 VDC	20 mA	80 mA
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Operating temperature	-20°C/+85° C	
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Size	84 mm x 55 mm x 22 mm	
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Ingress protection	IP54	
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