

TECHNICAL MANUAL



TYROS

FM remote control able to provide a medical alarm for wireless HELIOS, Villeggio and compatible control units

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FOREWORD

FOR INSTALLERS

Please follow carefully the specifications about electric and security systems realization further to the manufacturer's prescriptions indicated in the manual provided.

Provide the user the necessary indication for use and system's limitations, specifying that there exist precise specifications and different safety performance levels that should be proportioned to the user needs. Have the user read carefully the instructions provided in this document.

FOR USERS

Carefully check the system functionality at regular intervals making sure all enabling and disabling operations were made correctly.

Have skilled personnel make the periodic system's maintenance. Contact the installer to verify correct system operation in case its conditions have changed (e.g.: variations in the areas to protect due to extension, change of the access modes, etc.)

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This device has been designed, assembled and tested with the maximum care, adopting control procedures in accordance with the laws in force. The full correspondence to the functional characteristics is given exclusively when it is used for the purpose it was projected for, which is as follows:

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Any use other than the one mentioned above has not been forecast and therefore it is not possible to guarantee the correct functioning of the device. Similarly, any other use of this technical manual other than the one it has been compiled for - that is: to illustrate the devices technical features and operating mode - is expressly prohibited.

The manufacturing process is carefully controlled in order to prevent defaults and bad functioning. Nevertheless, an extremely low percentage of the components used is subjected to faults just as any other electronic or mechanic product.

As this item is meant to protect both property and people, we invite the user to proportion the level of protection that the system offers to the actual risk (also taking into account the possibility that the system was operated in a degraded manner because of faults and the like), as well reminding that there are precise laws for the design and assemblage of the systems destined to these kind of applications.

The system's operator is hereby advised to see regularly to the periodic maintenance of the system, at least in accordance with the provisions of current legislation, as well as to carry out checks on the correct running of said system on as regular a basis as the risk involved requires, with particular reference to the control unit, sensors, sounders, dialler(s) and any other device connected. The user must let the installer know how well the system seems to be operating, based on the results of periodic checks, without delay.

Design, installation and servicing of systems which include this product, should be made by skilled staff with the necessary knowledge to operate in safe conditions in order to prevent accidents. These systems' installation must be made in accordance with the laws in force. Some equipment's inner parts are connected to electric main and therefore electrocution may occur if servicing was made before switching off the main and emergency power. Some products incorporate rechargeable or non rechargeable batteries as emergency power supply. Their wrong connection may damage the product, properties and the operator's safety (burst and fire).

DISPOSAL INSTRUCTIONS - USER INFORMATIONS



According to Directive 2012/19/EU on the Waste of Electric and Electronic Equipment (WEEE), it is here specified that this Electrical-Electromechanical Device started to be commercialized after 13th August 2005, and it shall be disposed of separately from ordinary waste products.

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1. GENERALS

TYROS is a FM remote control to generate an alarm in case of sudden illness or medical assistance. It is to be used with wireless intrusion detection systems based on HELIOS control units (IInd series), ETR, VILLEGGIO and other compatible control units. The button pressure on the button generates an encoded transmission.

Before the TYROS remote control using, it is necessary to perform the self-learning of the code. The power of the remote control is provided by two 3V bottom battery mod. CR2032.

2. FEATURES

Model:	TYROS	Spurious emissions:	<-70 dBm.
Power supply:	6V from 2 button batteries CR2032 type	Time out in TX	4 seconds with pressed button.
Power consumption:	17 mA peak. 10mA average, 0,1µA in stand-by.	Encoding:	remote control already coded, ready for self-learning.
Low battery condition:	4,5V with event transmission with single LED flashing (minimum operating threshold 3,6V).	Range:	70 meters in open field. The range may be subject to limitations dependent on environmental conditions.
Button control:	on the cover.	Dimensions:	W 37 x H 80 x D 16 mm.
Viewings:	front LED.	Weight:	26 grams
Operating temperature:	-10 / +55 °C, 93% U.R.	Colour:	black plastic with Grey rubber button.
Frequency:	transmission on European frequency for FM LPD devices.	Parts supplied:	2 batteries CR2032 built-in, technical manual.
Power:	-50 dB at 1 meter.	TYROS is an accessories of HELIOS II nd series and compatible control units, it is equipped with CE declaration of conformity that can be download from the www.elmospa.com website.	
Modulation:	FM deviation +/- 15KHz.		

3. BATTERY REPLACEMENT

The replacement operation must be performed when the remote control no longer has the nominal capacity and built-in LED emits a single blink at each key press.

The operation provides the opening of the lower cover of the TYROS, the operation to perform are:

- use a Phillips screwdriver to remove the locking screw,
- open the lower cover,
- remove the old batteries and replace them with two new of the same model (CR2032),
- insert in the clips the new batteries with the + symbol and the CR2032 written, being careful to not touch them with your fingers or metal materials.
- put the housing and tighten the fixing screw being careful to not force it too much.

CAUTION! This device contains button cells.

Do not ingest the battery. Chemical burn hazard.

In case of ingestion, button cells might cause severe internal burn within just 2 hours and could result in death.

Keep new and used batteries away from children's reach.

If the battery slot does not firmly close, suspend product use and keep it away from children's reach.

In case of suspected ingestion or insertion in other body cavities, seek medical attention immediately

4. REMOTE CONTROL MEMORISATION

The TYROS remote control is already provided by encoding and can easily be associated to each user managed by the compatible device. The procedure for the code storing of a remote control may be different from device to device, it is necessary:

- enter the specific menu of remote control learning to specific user
- wait the remote control transmission
- press any button of the remote control
- check that the code has been received correctly and that the device provides the proper signalling
- customize activities characteristics to be associated with the user that uses the remote control
- Finally, check the remote control functions based on performed programming

5. OPERATION

The TYROS remote control must be used if necessary. If the control unit has been properly programmed, each time you press any of the remote control button will be sent a medical alarm signal to alert medical guard or close relatives.

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Products features as described above do not bind the manufacturer and may be modified without prior notice.

EL.MO. SpA Via Pontarola, 70 - 35011 Campodarsego (PD) - Italy
Tel. +390499203333 (R.A.) - Fax +390499200306 - Help desk +390499200426 - www.elmospa.com - international@elmospa.com