

# 433TSPW2KC MONARCH



Manual

with Patented  
ChargeGuard®  
Circuit



ChargeGuard®

Transmitter  
Solutions®

*Thank you for choosing a Transmitter Solutions® product.  
Please read this manual carefully before using the product.*

*Made in Italy. Copyright© 2006 by Transmitter Solutions®.*

## CONTENTS

### 1 - TRANSMITTER OVERVIEW

- 1A- General information
- 1B- Technical specifications
- 1C- Main components

### 2 - NUMBERING

### 3 - PROGRAMMING

### 4 - OPERATION

### 5 - BATTERY ACCESS

### 6 - TROUBLESHOOTING

#### 1A- General information

The Transmitter Solutions® Monarch transmitter is a 2 buttons key chain style mini transmitter operating at 433,92MHz. It has been designed for the control of automatic closing systems and anti-burglar systems, thanks to its very high security coding system (KeeLoq® Hopping code). The code sent by the transmitter changes at each activation, avoiding any scanning and copying risk. A special algorithm allows to keep synchronized transmitter and receiver.

The transmitter can operate with many receivers of the range Transmitter Solutions® 433R. Ask your installer or reseller the product which best fits your application. The output of the receivers can be either wiegand 26 bit ( to communicate with access control systems ) or 1-2-4 relay with NO- NO/NC output. The CR 2016 lithium batteries of the transmitter have a shelf life of about 6 months. The product fully complies with Part 15 of FCC Regulations and the European Directives 99/05/CE 89/336/CE 73/23/CEE

#### 1B - Technical specifications

Operating frequency	433,92 MHz
Number of keys:	2
Battery :	2 x 3V lithium batteries CR2016
Battery life:	18 ÷ 24 months
Security code:	Keeloq® Hopping code
Number combinations :	2exp64
Operating temperature:	-20°F ÷ +131°F (-20°C ÷ +55°C)
Overall dimensions:	2.4" x 1.4" x 0.51" (61 x 36 x 13 mm)
Weight:	0.49 oz. (14 g)

#### 1C - Main components

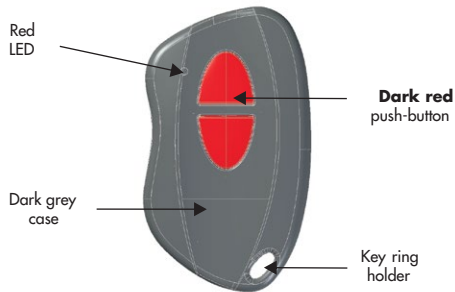


Fig. 2

## 2 - NUMBERING

Each transmitter is manufactured and sold with a different factory-set serial number .

## 3 - PROGRAMMING

The transmitter must be programmed into your system memory. Your own installer or reseller will provide you the necessary instructions for your system.

## 4 - OPERATION

A- Firmly depress the button until the small red LED illuminates.

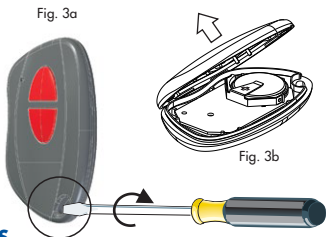
B- After the LED has illuminated, release the button.

If the device you are attempting to activate does not respond, repeat steps A and B or consult section 7 ( Troubleshooting ) of this manual.




## 5 - BATTERY ACCESS

To access the battery open the case with a screwdriver acting on the slot between the cover and the bottom, as shown in fig. 3a and 3b. Slide out the old batteries and replace them with the new ones [CR2016] respecting the polarity, with the positive(+) side upward.

*NOTE: Please dispose of the batteries properly according to local laws and regulations. Test proper battery installation by verifying that the LED illuminates when the button is pushed.*



## 6 - BATTERY STATUS

Led color	Battery level	TX Status
 Led GREEN	Normal level	~6000 pulses [*] - Normal range
 Led ORANGE	Attention level	Max 300 pulses[*]- Low range
 Led RED	Lowlevel	Replace battery - No range

[\*] : Depends on batteries type and operating conditions . Batteries life calculated with 1-sec pulses.

## 7 - TROUBLESHOOTING

PROBLEM	SOLUTION
The system does not receive the transmitter signal. The transmitter LED is ON	Check to verify the transmitter is programmed into your system
The operating range is reduced	Replace the transmitter batteries

### TransmitterSolutions® Type: 433TSPW2KC

FCC ID : SU7433TSPW2KC

This device complies with Part. 15 of the FCC Rules

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept interference received, including interference that may cause undesired operation.

### Notice

Any changes or modifications not expressly approved by Transmitter Solutions® could void the user's authority to operate this equipment.

### WARRANTY

The warranty period of TransmitterSolutions® 318 transmitters is 24 months, beginning from the manufacturing date of the transmitter . During this period, if the product does operate correctly, due to a defective component, the product will be repaired or replaced at the sole discretion of Transmitter Solutions®.

The warranty does not extend to the transmitter case which can be damaged by conditions outside the control of Transmitter Solutions® or to battery life.



2480 South 3850 West, Suite B  
Salt Lake City, UT 84120  
(866) 975-0101 • (866) 975-0404 fax  
www.transmittersolutions.com