

VV-ZELA-RA

BI-DIRECTIONAL WIRELESS SIREN



Installation and use manual

15.07-M:1.0-H:SI-02v1-14-F:RC9

Thank you for choosing our product.

We invite you to read carefully these directions before installing and using this device in order to fully make the most of all its capacities.

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1. DESCRIPTION

W-ZELA-RB is a universal wireless siren with armed/disarmed system signalling and sounder characteristics similar to traditional wired siren.

Power supply Power supply 230 V \sim / 15 V \sim - 9 VA (provided) + backup lead battery 12 V / 2 Ah (not provided).

Bi-directional The siren is bi-directional: it receives and transmits radio codes to communicate with the control panel and act accordingly. The siren can communicate directly with compatible control panels or combined with TSR or TSR2 transmitters (TSR = transmitter, TSR2 = transmitter/receiver, both for sirens) for use with any control panel.

Received radio codes (from control panel or transmitter):

- System armed: single long blink of the siren lamp
- System disarmed: three short blinks of siren lamp
- Alarm: siren sound
- End alarm: siren silence

Transmitted radio codes (to control panel or TSR2 transmitter):

- Tamper
- Low battery

Alarm The siren emits acoustic alarm “beep” that lasts **1 minute** maximum and **five alarms** signalling each arming. Further alarm events will be ignored. Alarm counting is reset at next arming of the system (radio arming code sent from the control panel or transmitter).

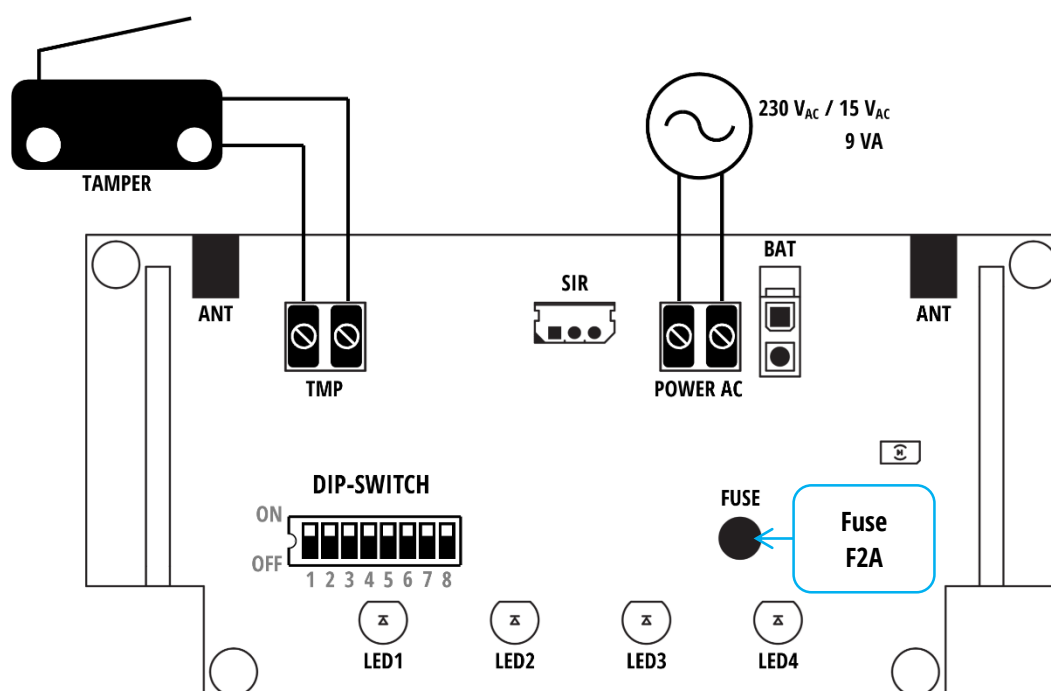
It is possible to disable the alarm-counting block.

2. COMPATIBILITY

	CE100-3GSMBUS	CE100-8 (from vers. 7.4)	CE60-3GSM (from vers. 2.0)	CE50-2PLA	CE16-2
Maintenance	●	●	●	—	—
Bi-directional communication	●	●	●	●	—
Bi-directional learning	● (from vers. 1.30)	—	● (from vers. 4.30)	—	—
Arming	●	●	●	●	●
Disarming	●	●	●	●	●

3. TECHNICAL

POWER SUPPLY	Power supply 230 V _{AC} / 15 V _{AC} - 9 VA (provided) + backup lead battery 12 V / 2 Ah (not provided)	
ABSORPTION	Stand-by: 15 mA	Alarm: 1,5 A
ALARM CYCLES	5 cycles	
SINGLE ALARM TIME	About 1 min	
ACOUSTIC POWER	115 dB/m	
SIGNALLING	TOTAL > single long blink PARTIAL 1 > long + 1 short blink PARTIAL 2 > long + 2 short blinks	PARTIAL 3 > long + 3 short blinks DISARMED > 3 blinks
RADIO COMMUNICATION	Frequency: 433,92 MHz Range: 100 m (open filed) Power: 10 mW	
TEMPERATURE	-5 °C / +45 °C	
DIMENSION	310 (H) x 210 (L) x 85 (P) mm	



TERMINALS

TMP	Tamper (to disable the tamper short-circuit the terminal)
SIR	Siren speaker
POWER AC	Power supply input: 15 V _{AC} - 9 VA
BAT	Backup battery (lead 12 V / 2 Ah)
ANT	Antennas

LED

LED1	
LED2	High power LEDs for blinking signalling
LED3	All LEDs light simultaneously
LED4	

DIP-SWITCH - FUNCTIONS

		OFF	ON
DIP1	BI-DIREZIONAL LEARNING Start the BI-DIRECTIONAL learning procedure to pair the siren with control panel. Complete the procedure starting the same operation on control panel.	Normal working	Learning
DIP2	“BY DETECTION” LEARNING Starts the “by detection” learning to pair the siren with control panels without the BI-DIRECTIONAL function. The siren emits some times its TAMPER radio code (which must be learned in radio zone memory of the panel) then listens for control panel radio code in order to store it.	Normal working	Learning (press the temper switch to start)
DIP3	SUPERVISION The siren sends a special “in life” radio code to inform the control panel of its correct working and presence. The supervision code is transmitted after about 1 hour from last transmission.	Supervision off	Supervision on
DIP4	ALARM BLOCK (COUNTER) The siren sounds for max 5 alarms (each alarm sound lasts about 1 minute) during the same arming, then stops the sounds until the next arming. It is possible to disable the alarm counting and make the siren sound without limits.	Block Enabled	Block Disabled
DIP5	LIGHT ALERTS AT ARMING AND DISARMING The lamp LEDs light on at the arming and disarming of the system to give a visual feedback to the user: <ul style="list-style-type: none"> • TOTAL ARMED > long blink • PARTIAL 1 > long blink + 1 short • PARTIAL 2 > long blink + 2 short • PARTIAL 3 > long blink + 3 short • DISARMED > three blinks 	Alerts ON	Alerts OFF
DIP6	NOT USED	Leave OFF	-
DIP7	NOT USED	Leave OFF	-
DIP8	NOT USED	Leave OFF	-

4. RESET

It is possible to reset the siren to factory settings with the following steps:

1. Unplug the power supply and battery
2. Set **all DIPS** to **ON**
3. Connect the power supply and battery: the siren emits some “BEEP” and LED blinking
4. Unplug the power supply and battery and set all DIPS to OFF, the start with new programming

5. PAIR THE SIREN WITH THE CONTROL PANEL (LEARNING)

- DURING THE LEARNING PROCEDURE AVOID TRANSMISSION FROM OTHER RADIO DEVICES (EG.: DETECTORS).**
- ALWAYS MOUNT THE ANTENNA ON CONTROL PANEL FOR RADIO RECEIVING.**
- THE SIREN CAN BE LEARNED ONLY IN ONE OF THE TWO MODES (“BI-DIRECTIONAL” OR “DETECTION”)**

CONTROL PANELS WITH “BI-DIRECTIONAL LEARNING” FUNCTION

VERIFY THE CONTROL PANEL HAS THE “BI-DIRECTIONAL” FUNCTION, IF NOT FOLLOW THE PROCEDURE DESCRIBED BELOW.

- Control panel:** enter in Installer Menu:
 - Select the “TX Code” item and set a value different from “000” (zero-zero-zero)
 - Select the “Bi-directional learning” item, select an empty memory position (indicated with “**O**” symbol).
- Siren:** set **DIP1** to **ON**: the siren emits a long “beep” and lights on the lamp
- Control panel:** press – within 30 seconds – the button for start the procedure (“**X**” or “**✓**”).
The control panel and the siren will learn their radio codes (this operation is automatic).
- If all ends correctly: the control panel displays “Learning OK”. The siren emits some “beep”, the lamp blinks some times and then stay solid on.
- Siren:** set **DIP1** to **OFF**: the siren emits a “beep” and switch off the lamp. Close the cover of the siren.
- In case of errors, repeat the procedure.

CONTROL PANELS WITHOUT THE “BI-DIRECTIONAL LEARNING” FUNCTION

THE CONTROL PANELS “AN” VERSION MUST BE SET IN “DETECTION LEARNING” MODE.

- Control panel:** enter in Installer Menu
 - Enable the radio codes transmission on control panel
[CE100-8, CE100-3: set the “TX Code” different from “000”]
[CE60-3: set the “TX Code” different from “000” or learn an activator in memory position “Activator 01”]
 - Select the “Radio Zones Learning” item, select an empty memory position (indicated with “**O**” symbol).
- Siren:** set **DIP2** to **ON**. And press the **TAMPER switch**.
The siren transmits its TAMPER radio code for **five times** (one blink for each transmission).
If the code is learned correctly, the control panel displays a solid “**X**” symbol.
- After the TAMPER code transmission, the siren waits for the radio code from control panel (emits one “beep” and switch on the lamp).
- Control panel:** exit from Installer Menu
The control panel sends its radio code and the siren learns it (the siren emits two “beep” and one blink).
If the siren does NOT learn the control panel radio code, the lamp lights solid on: make a disarming, the control panel transmits its radio code and the siren learn it.
- Siren:** set **DIP2** to **OFF** (the siren emits three “beep”).

6. VISUAL FEEDBACK

SIREN	CE100-8 / CE100-3GSM	CE60-3GSM
1 long flash	Total arming	Total arming
1 long flash + 1 short flash	Partial 1 arming	Partial arming
1 long flash + 2 short flashes	Partial 2 arming	Outdoor arming
1 long flash + 3 short flashes	Partial 3 arming	-
3 short flashes	Disarming	Disarming

7. MAINTENANCE

By sending to the control panel this command, the siren enter in “maintenance” mode” allowing to open the cover without tamper alarm.

Start maintenance: when the siren receives the “start maintenance” radio code, emits some “beep” and blinks indicating that now it is possible to open the cover without tamper alarm. The max time available is about **4 minutes**.

Stop maintenance: when the siren receives the “stop maintenance” radio code, enable the tamper control, emits some “beep” and blinks long one time.

8. TAMPER

The tamper alarm is active 24 H/24, also at system disarmed (excluded the case of “maintenance” function).

When the siren cover opens, the tamper radio code is sent to the control panel and both start to sound.

Once the tamper alarm is send, it is **disabled until the next ARMING** of the system.

Thus, in case of tamper alarm, remember that – to enable it again – it is necessary to arm at least one time the alarm system.

Note: when the siren is new or after a RESET, to enable the tamper it is necessary to arm at least once time.

Note: the tamper switch is used to start the “by detection” learning when **DIP2 = ON**.

To disable the tamper, short the tamper terminals with a piece of wire.

9. LOW BATTERY

The siren signals its battery level is under the minimum threshold by a quick blinking of the LEDs for some seconds at disarming (after the three blinks for “disarming” feedback).

The siren sends a special “low battery” radio code (LWB) to the control panel, which perform proper actions (visualization on display and sending of SMS).

10. WARNINGS

BEFORE TO INSTALL THE SIREN, VERIFY THE RADIO RANGE OF THE CONTROL PANEL FROM THE INSTALLATION POSITION.

THE INSTALLER MUS FOLLOW CURRENT REGULATION

THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY IMPROPER USE OF THE PRODUCT, INCORRECT INSTALLATION OR FAILURE TO COMPLY WITH INSTRUCTIONS OF THIS MANUAL AND THE LAW REGARDING ELECTRICAL SYSTEMS.

THIS DEVICE WORKS WITH LEAD BATTERY 12 V / 2 Ah (NOT INCLUDED)

HANDLE WITH CARE. DANGER OF EXPLOSION AND FIRE

DO NOT DISPOSE THE BATTERY IN FIRE, DO NOT WELD OR DAMAGE THE BATTERY

REPLACE ONLY WITH THE SAME BATTERY TYPE

RESPECT THE POLARITY SHOWN IN INSTRUCTIONS

THE BATTERY MUST BE REPLACED ONLY BY A QUALIFIED TECHNICIAN

DISPOSE USED BATTERIES ACCORDING TO APPLICABLE LAW, EVEN IN CASE OF DISUSED EQUIPMENT

IN CASE OF RELEASE OF LIQUID, PROTECT HANDS WITH PROPER GLOVES



Pursuant to Legislative Decree No. 49 of 14 March 2014 "Implementation of Directive 2012/19 / EU on waste electrical and electronic equipment (WEEE)".

The symbol of the crossed-out dustbin indicates that the product at the end of its life must be collected separately from other waste.

The user must, therefore, take the device complete of its essential components to an authorized disposal center for collection of electronic and electrical garbage, or return it to the dealer when buying a new equivalent device, in relation of one to one or one to none for the equipment having the larger side less than 25 cm.

Appropriate separate collection of the disused equipment for recycling, treatment and environmentally compatible disposal helps to prevent negative impact on the environment and human health and promotes recycling of the materials making up the product.

Illegal dumping of the product by the user entails the application of administrative sanctions provided for in Legislative Decree n. 49 of March 14, 2014.



This device meets the R&TTE requirements (European Union)

This manual may be subject to change without notice

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