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# C6 EVO IOT USER MANUAL

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FOALING ALARM

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SW:1.1.2

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## System overview



C6 EVO foaling alarm aims to alert the breeder at the right time of the beginning of the second stage of labor best described as the engagement of the foal in the vaginal canal.

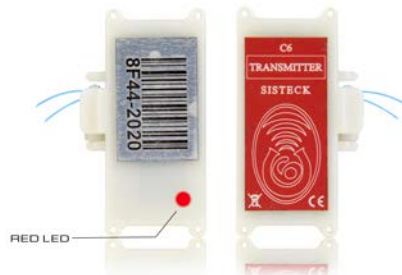
The major function of the system is to alert of the start of the foaling process helping the breeder to detect this unpredictable event

C6 EVO base kit system is composed of two radio unit, the receiver module C6 EVO RX with its own power supply and the transmitter module C6 EVO TX.

**First of all, before turn ON the C6 EVO RX connect the two antennas to the respective screw otherwise its possible cause damage the system.**

The system has an internal battery which is used **ONLY** to compensate for short periods of power failure. If the internal battery is fully charged and efficient, the operating autonomy in the absence of mains power is approximately 3 hours, then the system switches off. After about an hour of operation with internal battery, it is notified by SMS (if properly programmed) of the status to indicate that if the "blackout" persists, in the event of a delivery alarm there is **NO WARRANTY** warning. The C6 EVO IoT must therefore be **PERMANENTLY** power supply with mains power through its supplied power supply

## C6 EVO TRANSMITTER



C6 EVO TX module is built in waterproof plastic with an electronic circuit in it stocked by a battery, able when activated, to send radio waves. The feature of this transmitter is that is even a receiver so when activated, in the instant later it receive a radio wave that will put in standby the battery optimizing the consumption.

It is provided , in the rear part, by a RED LED light that is activated when the C6 EVO TX send radio wave so, when blinking, signals the transmission of the radio waves helping to monitor the functionality of the system, like range of action and right functionality of the C6 EVO TX itself.

The radio transmissions are in sequences of 6 and are made visible by the blinking of the RED LED light.

The C6 EVO TX also provides an ID MAC NUMBER that identifies each C6 EVO TX and this information is readable in the touch screen of the C6 EVO RX and posted in the SMS message on the mobile phones listed in the setting menu opportunely selected

After each transmission there is a break for a few seconds.

Once the signal is picked up by the receiver the transmitter goes in standby and displays a double blinking of the RED LED light.

This double blinking is a sign of the beginning of the stand by phase of the C6 EVO TX and also a guide that is helpful to determine the right distance between RX and TX.

In the lateral outline is there is a longitudinal groove where the mobile part of the transmitter (made of magnetic cylinder fixed with a nylon suture material) is lodged. In the frontal plane there are also four visible small holes where the transmitter is sutured to the Mare's vulva. The electronic circuit is activated when the magnet becomes separated from the groove. **In order to avoid running down the battery , always leave insert the magnet inserted in its lodge of the C6 EVO TX.** In case you make a test to check the transmitter remember to turn on C6 EVO RX just to permit the stand by function described before. It's always advisable to put the magnet in its lodge after this check. In order to avoid accidental activation of the transmitter leave a distance between the transmitters of 3 cm and don't store in proximity of a magnetic source.

## C6 EVO IoT BASE (RECEIVER)



C6 EVO IoT RX is a plastic shell that contains a main board with a radio wave receiver , a GSM module and a emergency battery in the even of a powercut that permits an autonomy of 12 hours.  
On the lateral side there is the access to the SIM card drawer and a mini USB jack , covered by a yellow cap.

On the same side the ON/OFF button and the jack to connect the 220V power supply that must be kept always plugged in.  
In the front a touch screen pad is well visible and below this three LED reporting three different statuses;  
ON green led that blink every 15 sec ; ALARM red led that is activated during an alarm ;CHARGE.yellow led that turn on when the receiver is connected to the electrical network through it's power supply

The led Charge is visible only with the power supply connected to the 220/110 V network and with the C6 EVO RX turned ON

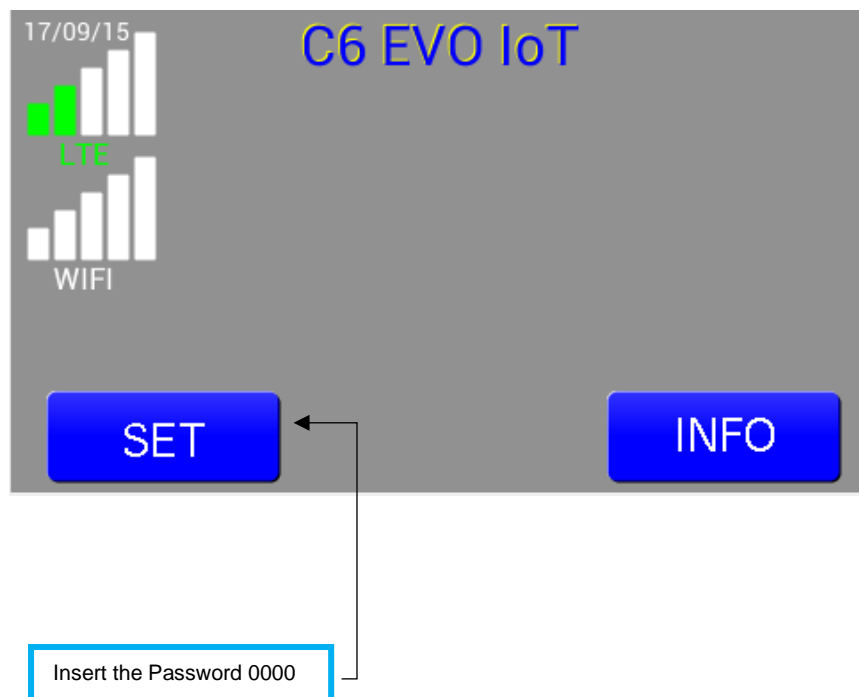
## How Insert the SIM card



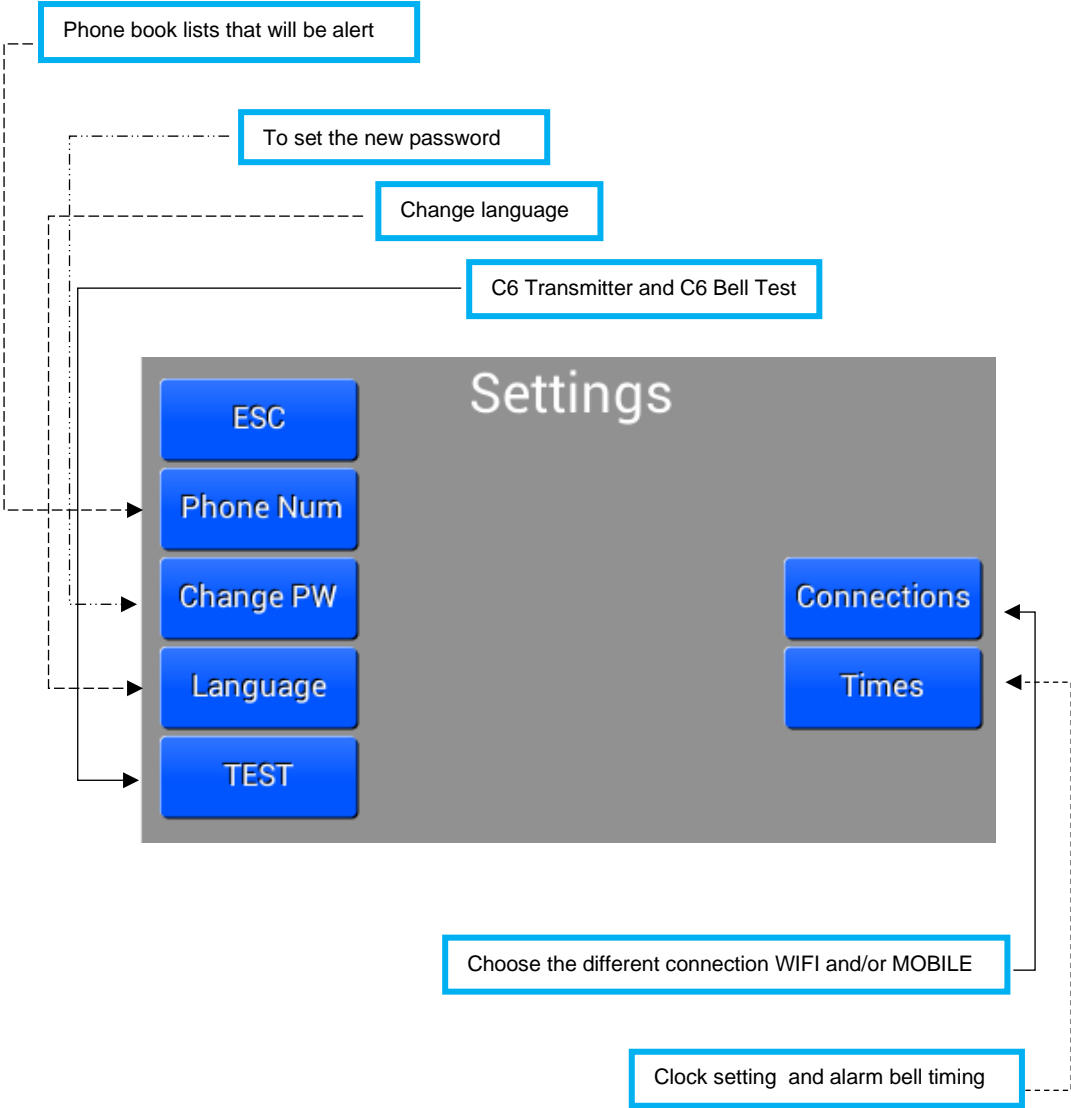
Under the white cup you'll find the groove where insert the SIM card like showed in the pictures above.

Of course choose the SIM of the mobile phone company that as the best signal in your area.

In case you need to connect to the server to run the APP take also some data traffic included



Slides Settings





## Slides Phone Numbers

On the 1 line insert the first number that will be alert

In case you're 220Volt network goes in blak out instance the system will alert you

The screenshot shows a configuration screen for phone numbers. At the top left is a blue button labeled 'ESC'. At the top right is a blue button with a right arrow '>'. Below these is a table with four rows, each representing a line. The columns are labeled 'C', 'NUMBER', 'SMS', 'VOICE', and 'POWER'. Row 1 has a black arrow pointing to the 'NUMBER' field. Row 1's 'SMS' and 'VOICE' fields have yellow circles, while 'POWER' is 'on'. Row 2's 'SMS' has a yellow circle, while 'VOICE' and 'POWER' are 'on'. Row 3 and Row 4 have all three services ('SMS', 'VOICE', 'POWER') set to 'on'. A callout box points to the yellow circle in the 'SMS' field of Row 1. Another callout box points to the '>' button. A third callout box points to the 'Next page' button at the bottom right.

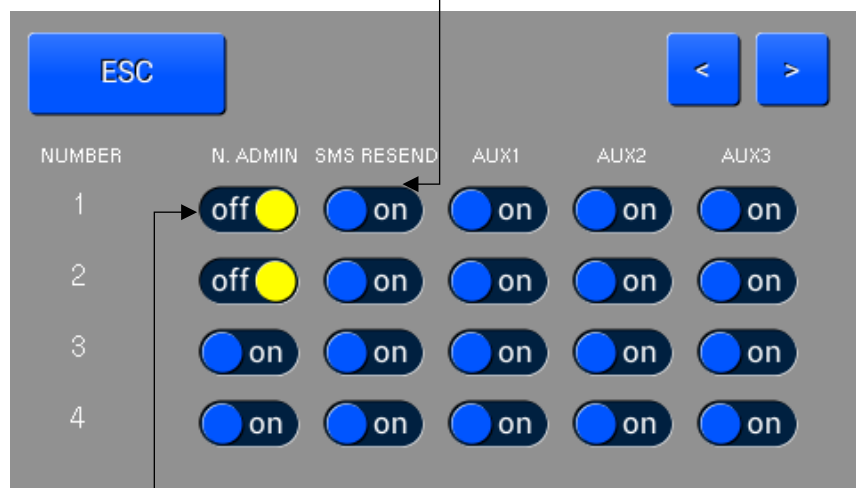
C	NUMBER	SMS	VOICE	POWER
1	123456789	off	off	on
2	123456789	off	on	on
3	123456789	on	on	on
4	123456789	on	on	on

Flag or unflag the service on yellow is ON

Next page

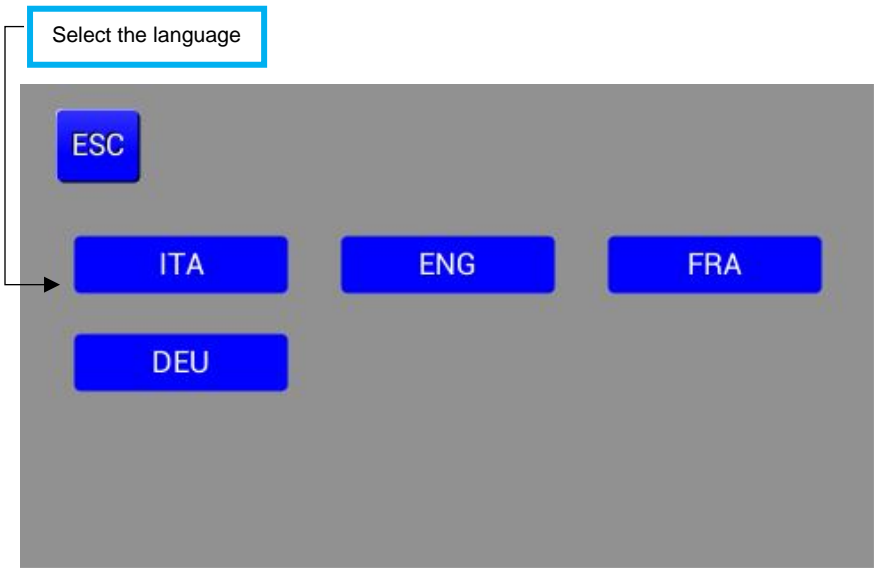
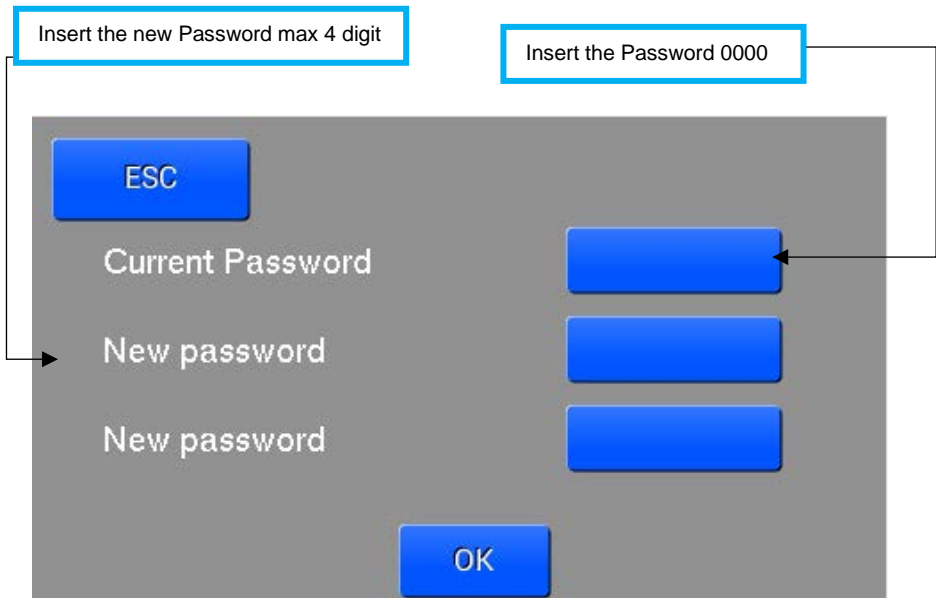
## Slides More Numbers

Every SMS/TEXT received on the SIM card will be forwarded on the admin number



If you flag ON (yellow) that number (the first of the previous list) will be the ADMIN number that can manage more function BY SMS/TEXT to the receiver.

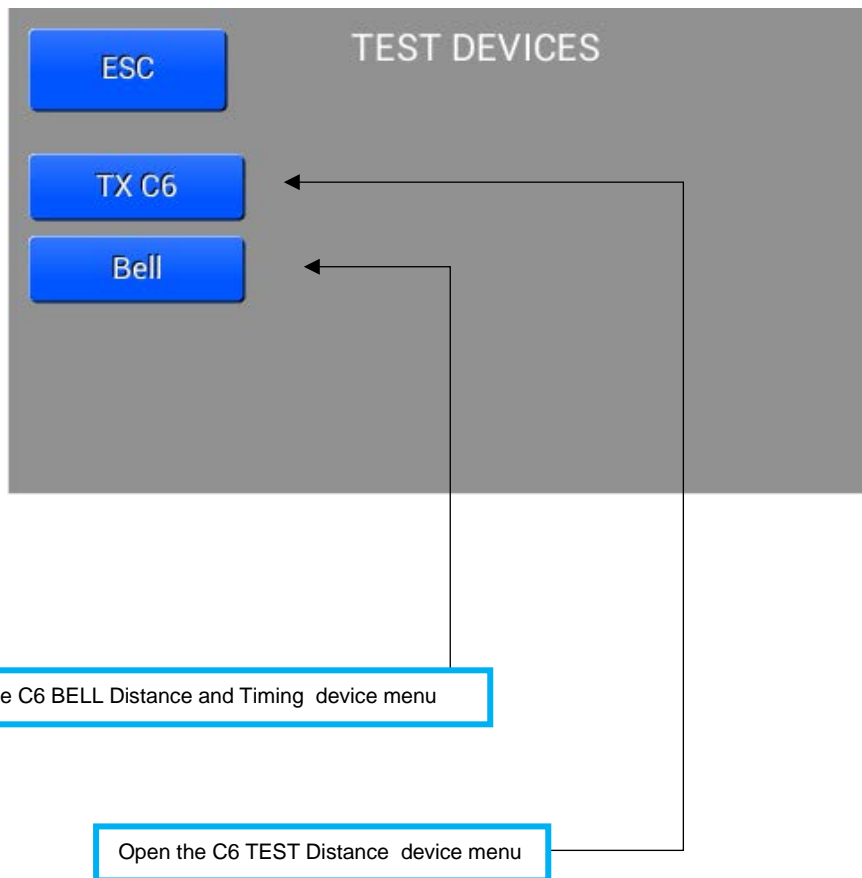
Slides Change Password and Language



## Slides Test

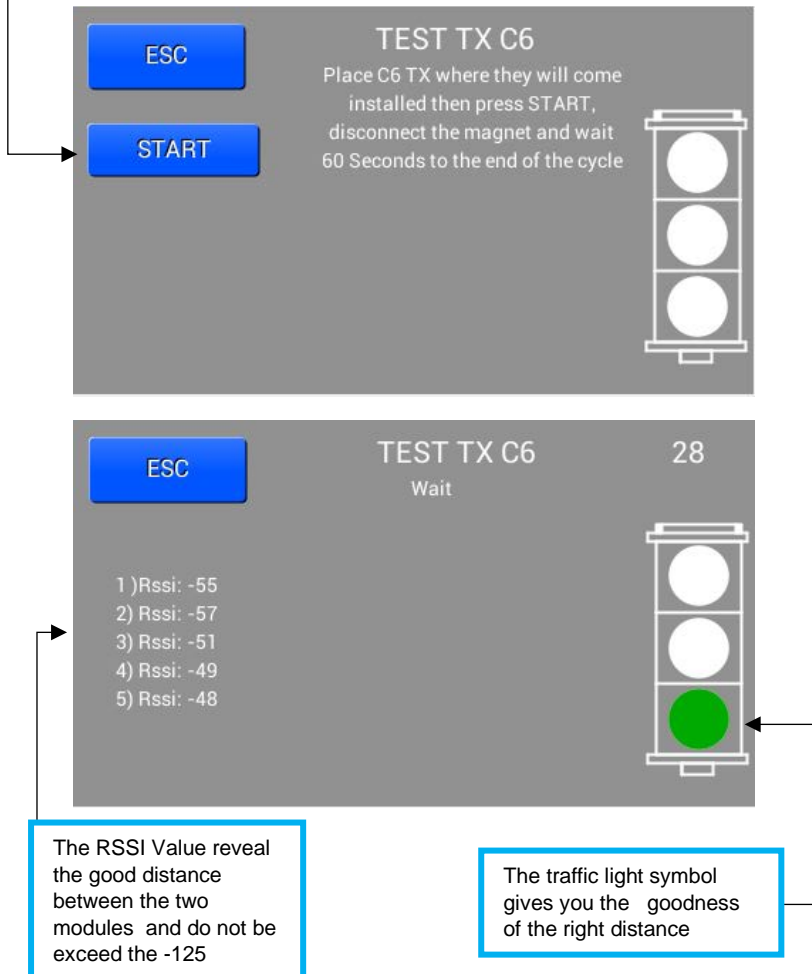
In this area it is possible to perform coverage tests of the sensors and any siren.

**It is important to proceed with this test BEFORE installation to have a measurement regarding the flow rate**



## Slides Test C6 Transmitter

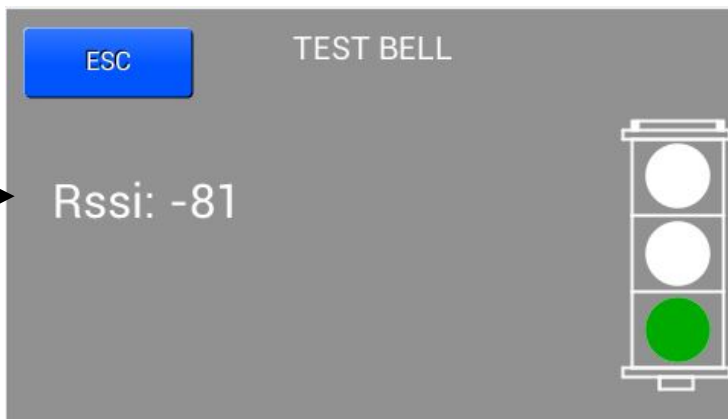
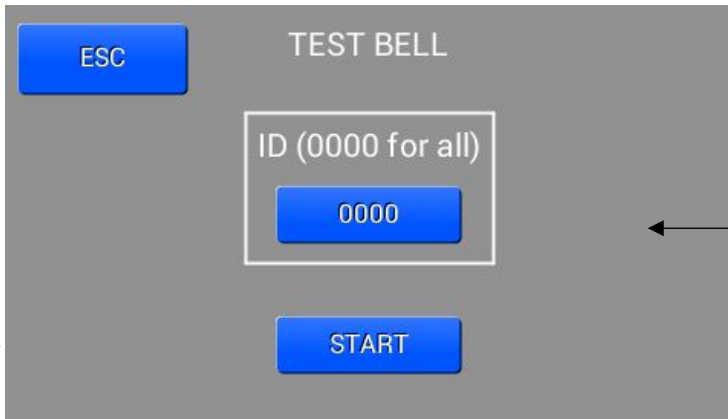
Performed by two people, operator 1 with the transmitter in hand will be positioned where the final location will actually be follow the instructions shown on the display, operator 2 on the receiver itself will press the START button; immediately afterwards, operator 1 detaches the magnet from the sensor You must wait 60 seconds for the cycle to complete and read the values written on the display on the left. Each line is a transmission, the digit before the parenthesis indicates the transmission number followed by its RSSI (indication of the received signal strength by the receiver) The Rssi values are negative but must never exceed -125 (more negative values = lower signal strength) Note: after 5/6 readings the procedure is concluded



## Slides Test Bell

Place Sirena on the final installation site. By pressing START the siren must emit a sound and on the display you will see the intensity of the signal answered by the siren itself. The values of Rssi are negative but must never exceed -125

ID of the BELL



The RSSI Value reveal the good distance between the two modules and do not be exceed the -125

The traffic light symbol gives you the goodness of the right distance

## Slides Connections

It's IMPORTANT insert the right APN of the mobile phone company that you choose

Button to search for the WIFI of the zone access points. Then choose the network and enter the password, data that will appear in the Remote SSID and Remote Password

Settings  
Connection Priority

ESC Scan WiFi

Name APN	Name APN
User APN	User APN
Pw APN	Pw APN
Remote SSID	Remote SSID
Remote Password	Remote Password
Local SSID	Local SSID
Local Password	Local Password

Connection Priority Server

NO Connection WiFi/GSM GSM/WIFI **WiFi Only** GSM Only

The System is connect to the network using the WIFI connection first then the mobile

The System is connect to the network using the WIFI connection only

The System is connect to the network using the mobile connection first then the WIFI

When you connect The System to the server use your easier connection WIFI or GSM one of both or first the much powerful then the secondary or in case you don't have any valid connection move to No Connection. The System is connected to the server just to manage future notifications and configure it by APP so it's important choose a SIM card with some MB data included, in case you don't want or don't have traffic data choose the option WIFI only or NO connection

## Slides Times

Manual programming of the local date and time in UTC (UNIVERSAL TIME COORDINATED) and enter the Time Zone of the correct area  
[https://en.wikipedia.org/wiki/Time\\_zone](https://en.wikipedia.org/wiki/Time_zone) Note: if the system has a data connection (or WiFi or GSM), the Auto Setting function is enabled (on) and the date and time will always be automatic and precise The auto DST (Daylight saving time) if enabled (on) automatically corrects daylight saving time and solar time

ESC

Times

Bell (Sec.) 5

Time Zone (-12/+12 Hour) 0

Auto Setting on

Auto DST on

Date 24

Month 24

Year 24

Hour 24

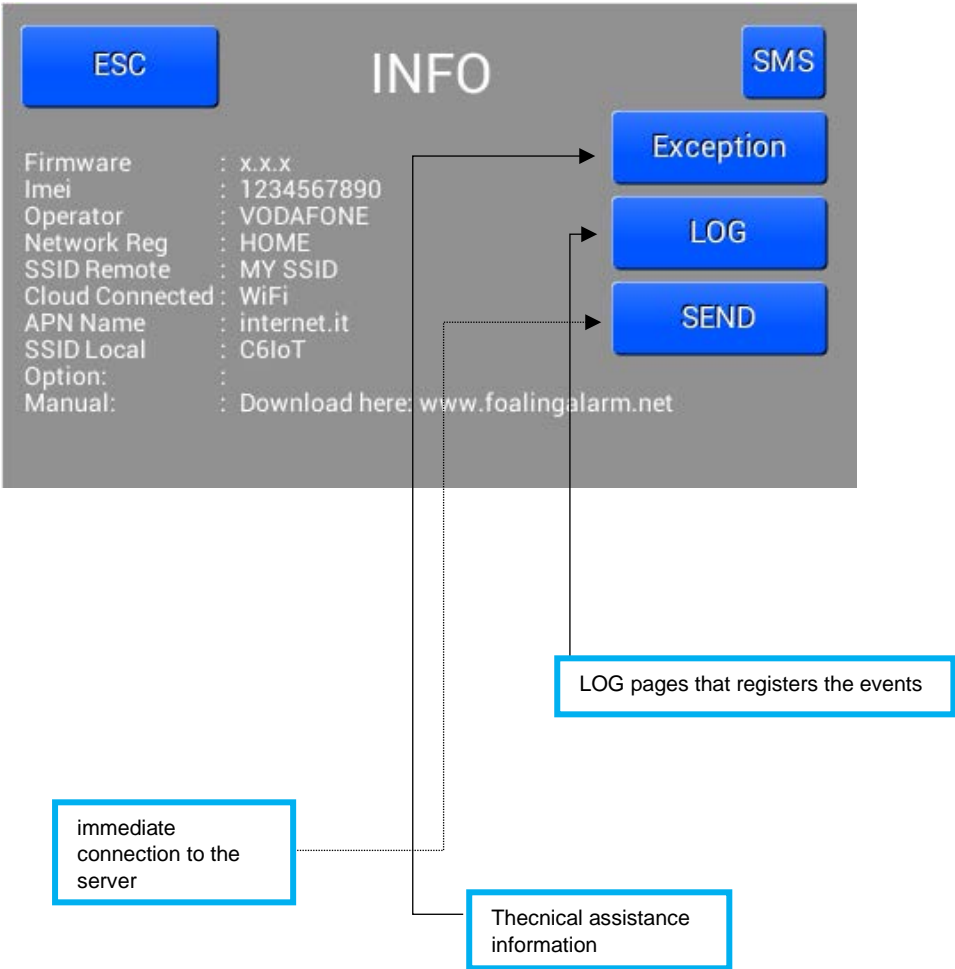
Minute 24

Confirm

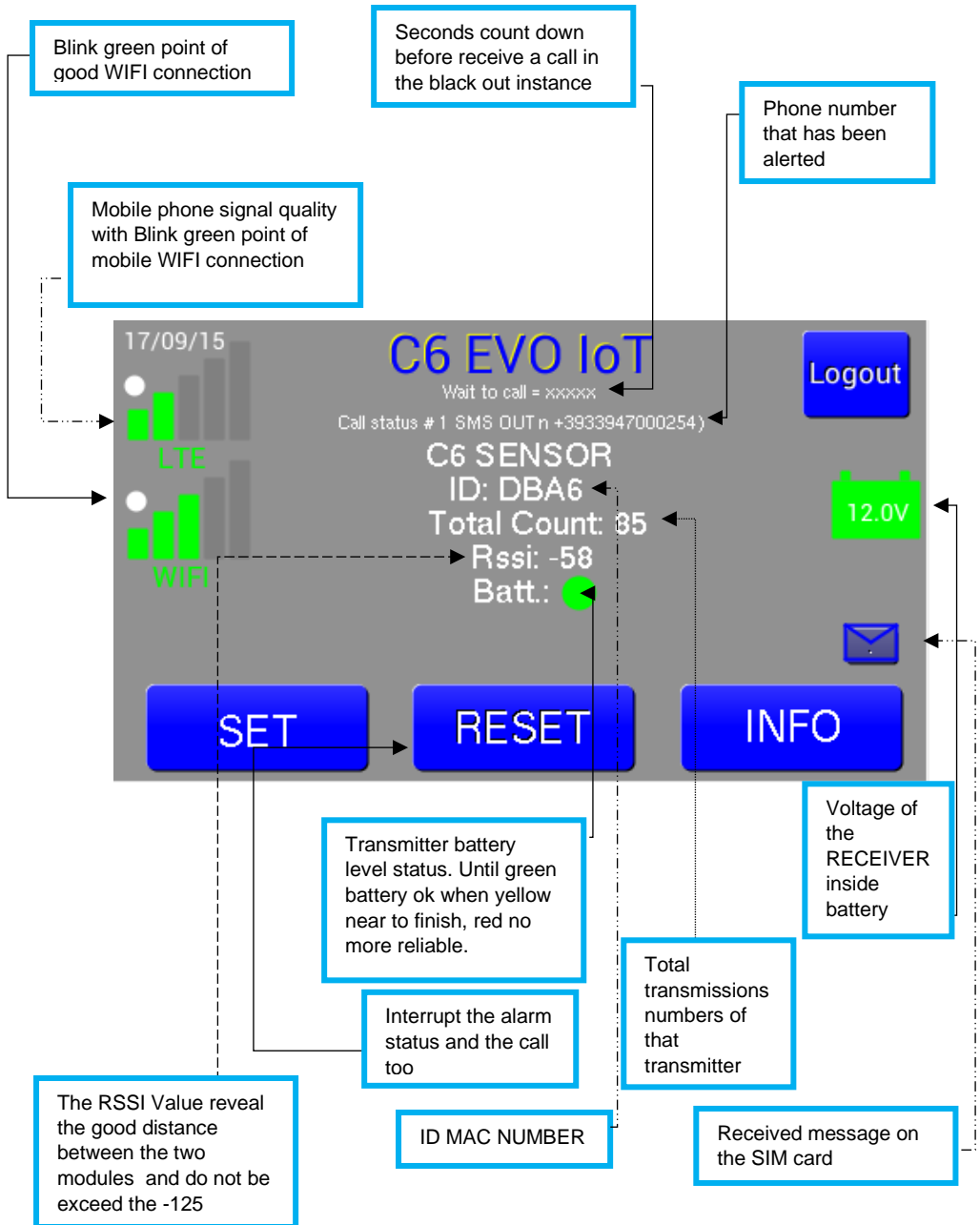
Seconds that the Bell will run

Move both the toggles to auto setting ON yellow to sincronize the clock with your local time





## Slides Alarm



## Warnings

**This C6 EVO birth alarm system must be used by qualified staff with the expertise and experience necessary to manage the phases around the time of birth; the proper functioning of C6EVO presupposes a daily check of the entire system by carrying out a transmission test after removing the magnet (even after installation on the animal). The manufacturer assumes no responsibility for damage to people, animals or things deriving from any malfunctions or failures of the product caused by improper use of the same and/or caused by its use by persons lacking the necessary skills and experience and/ or caused by failure due to inosservance with the instructions contained in this manual and/or by malfunctions and failures not promptly reported in accordance with the provisions of the general contract conditions.**

## Warnings

Remember that when you activate an alarm removing the magnet from the C6 EVO TX, you must be in the proximity of C6 EVO RX and obviously that it's turned on. After each trial re-insert the magnet in its groove in order to re-set the initial condition.

With aim to keep the backup battery of the C6 EVO RX in a good state it's advisable to connect the power supply once every 3 months also during the non use periods ( just put it on the 220/110 V network).

It is necessary to carry out cleaning and maintenance of this product periodically. We are not liable for malfunctions and failures caused by failure to clean and maintain the device

The content of this documentation is subjected to continuous verification and, when necessary, suitably integrated. It is the user's responsibility to consult the updated version of this manual, which can be found on the website [www.folingalarm.net](http://www.folingalarm.net) after registering and complying with what is prescribed therein. Do not drop the device or battery. If the device or battery is subjected to impact, especially against hard surfaces, it can be damaged. In the event of a fall or impact, check that the device is fully functional before using it again. Do not allow children or pets to bring the device and its accessories to their mouths and bite them. Do not use the device if its use is prohibited. Do not use the device if this involves danger or risk of interference with other electronic devices and Interference with medical equipment Follow the provisions and rules established by the hospital and health facilities. Do not use the device when this is prohibited. Some wireless devices may impair the operation of appliances hearing aids and pacemakers. Consult the operator for more information. Pacemaker manufacturers recommend that a minimum distance of 15 cm be maintained between the device and the pacemaker to avoid interference. Do not expose your device or its accessories to extreme heat or cold conditions. Conditions of this type can interfere with proper operation and cause a fire or explosion Do not use detergents, powders or other chemicals (such as alcohol and benzene) to clean the device or accessories. These substances can cause damage to the elements or even expose you to a risk of fire. For cleaning the device and accessories use a clean, soft cloth.

## Warnings

The guarantee of proper functioning and liability in the event of damage of any kind are excluded if the malfunction and/or damage is attributable to one or some of the following causes, listed by way of example only

- damage due to transport,
- improper use of the product or use not in accordance with the intended use;
- use of the product in an environment incompatible with its use or in an environment where it is not foreseen that it can be used;
- use of the product without taking into account the mandatory or even recommended safety standards in the place where it is used;
- failure to observe the warning and safety indications given in the documentation attached to the product and on the Sisteck S.r.l. website;
- use of the product in incorrect safety and protection conditions;
- unauthorized modification or repair of the product and supplied software;
- incorrect operation of the product due to the action of devices that generate radio frequency disturbances, electrical disturbances or, in any case, to the action of devices that operate outside the limit values permitted by law,
- incorrect operation due to the telephone operator used or in any case attributable to problems due to lack of connection, even temporary (for example, SIM credit exhausted or the operator's telephone cell saturated),
- malfunction due to incorrect or missing WiFi connection generated by the customer's Access Point or with a weak signal;
- Non-existent or insufficient maintenance and cleaning of both the Base product (C6 EVO) and the transmitters; in particular, the latter must necessarily be checked and tested DAILY, a check must also be made visually and replaced immediately if elements are found that indicate wear, deterioration, wear, cracks on the casing (including the magnet cylinder) which could compromise the good functioning at the time of delivery. i.e. when they are subject to greater stress.

**The C6 EVO product and its accessories are carefully checked and scrupulously tested before being placed on the market. However, the correct functioning of the entire system (from alarm generation to telephone notifications) also occurs through the use of technologies other than those used in the system itself and independent of them, on which Sisteck S.r.l. cannot perform any checks and/or checks. It is therefore clear that the full reliability of the system can never disregard the fact that an expert and competent operator is in any case physically present.**

This equipment been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the Instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver .
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example-use only shielded interface cables when connecting to computer or peripheral devices.

This equipment 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 any interference received including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

To comply with RF exposure requirements, a minimum separation distance of 0mm must be maintained between the user's body and the C6 EVO TX, including the antenna. The maximum results of Specific Absorption Rate (SAR) found during testing for C6 EVO TX are 0.017W/kg

### **C6 EVO IoT (RECEIVER)**

For proper operation, the receiver must be installed in a dry place, away from humidity and away from large stone and iron walls.

Collocate the Receiver in the middle of the area that you intend to monitoring

The inside battery will be on charge only when the plug is inserted in to the 220/110 V network and with the receiver in ON otherwise it will not in charge.

The inside backup battery must be substituted only by the producer or by authorized center and we advice to check it every 2-3 years

### **C6 EVO TRANSMITTER**

The transmitter contain an electronic circuit with battery so keep attention to hit and fall that can cause rupture.

We advice also to try all your material when received in order to verify if everithing is ok.

Keep the transmitter away from any magnet field and well guarded on it's case.

Keep it clean after each use and wash it only with neutral soap and warm water with a soft tooth brush then dry carefully, check and immediately replace if there are elements that indicate wear, deterioration, fraying, cracks or signs on the casing (including the magnet cylinder )

The inside battery must be substituted only by the producer or by authorized center.

## Warranty

Dear Customer,

in thanking you for choosing our product, we take the opportunity to inform you that it has been subjected to the most scrupulous functionality tests in our laboratories.

The C6 EVO is guaranteed for a period of 24 months as regards the C6 receiver with the exclusion of the internal 12V buffer battery.

The warranty is void for tampering, incorrect installation, failure to comply with these instructions as well as for external causes not attributable to the product (example: electric discharges, fires, attachments, etc.), as well as for the causes analytically described on page. 19 of this manual.

The costs and risks to and from the technical assistance centers or Sisteck are charged to the customer.

As for the C6 transmitter, being a delicate product and subject to breakage due to impact or improper use, which leads to battery discharge (for example, leave it with the magnetic cylinder detached, without the C6 receiver nearby and switched on, for a few time) cannot be included in the warranty.

However, in order to form part of this user manual and this section called "Warranty", the provisions of the general contract conditions that accompany the sale of each device are referred to in full

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**[www.foalingalarm.net](http://www.foalingalarm.net)**



## Video Link

Installation phase

<https://www.youtube.com/watch?v=WXR1ulzc0KI>



Foaling mare Q.H.

<https://www.youtube.com/watch?v=-ZaD-gWF58Y>



Foaling mare Trotter

[https://youtu.be/AQahfA\\_OSwa](https://youtu.be/AQahfA_OSwa)



