

(((**BIRTH
ALARM**)))

the original product

Birth Alarm Advanced

EN Manual



Thank you for purchasing the Birth Alarm Advanced. This is an extremely reliable reporting system for foal births. We recommend that you read this manual carefully before using it. Proper assembly and operation are essential for proper working.

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1. Introduction

When your mare gives birth you would like to be present so that you can intervene in case of any complications or warn a veterinarian. Horses and ponies have the tendency of lying stretched out on their left or right side during delivery. This gives them more space during contractions. The Birth Alarm Advanced makes good use of this tendency.

When you fix the Birth Alarm Advanced beneath the mare's halter (or in an anti-roll girth) you will receive a notification on your receiver. In this way, you will always be warned in time when the birth occurs.

2. Contents

1. The Birth Alarm Advanced transmitter	This sends a signal to the receiver as soon as the mare lies down on her side.
2. The special holder	This is where the Birth Alarm Advanced transmitter is pushed in. This holder can be fixed beneath the mare's halter or in the ring of the anti-roll girth.
3. The cable ties	To get started, we have already supplied a number of cable ties (also called "Tie-wraps") in addition. These cable ties are for single use, but they are available at any DIY store.
4. The special screwdriver.	You can use this to open your Birth Alarm Advanced transmitter (for example when the batteries need to be replaced or when you need to insert or remove the SIM card). On the back of this screwdriver there is also a strong magnet, with which you can operate the Birth Alarm Advanced transmitter.
5. The Birth Alarm Advanced receiver	The signal comes in on this receiver as soon as the mare lies down on her side.
6. The antenna	You fix the antenna on the receiver.
7. The Birth Alarm Advanced receiver standard	You click the receiver on this in case of regular use. You can also disconnect the receiver and wear it on, for example, your belt.
8. The USB cable	You need this cable to supply the Birth Alarm Advanced receiver with power, or to charge the battery of the Birth Alarm Advanced receiver. You can also use this cable to update the software of the transmitter or receiver. (More information can be found on www.birthalarm.com)
9. The charger	This provides your receiver with power for regular use or when you want to charge the battery.
10. QuickStart Guide	Concise manual



3. Preparing for use

3.1 First use

Before using the Birth Alarm Advanced for the first time, the transmitter has to log on to the receiver. For this, you have to follow the following step-by-step plan once:

Step 1	Open the Birth Alarm Advanced transmitter.
Step 2	Remove the label with the arrow which is located against the pole of one of the batteries. The batteries now make contact with the Birth Alarm Advanced transmitter.
Step 3	Close the Birth Alarm Advanced transmitter again.
Step 4	Take the Birth Alarm Advanced receiver out of the case and fix the antenna on the gold coloured antenna connection. <i>(You can use the small open-ended spanner for this, but make sure you don't apply too much force!)</i>
Step 5	Position the Birth Alarm Advanced receiver on the standard
Step 6	Click the USB cable into the USB connector at the top of the Birth Alarm Advanced receiver (next to the antenna).
Step 7	Connect the other side of the USB cable to the charger and plug the charger into the wall socket.
Step 8	Switch on the Birth Alarm Advanced receiver by pressing and holding the button in the top left-hand corner of the screen for two seconds.
Step 9	Hold the back of the special screwdriver against one of the lights on the Birth Alarm Advanced transmitter and wait for the status lights to light up green.



Opening up



Removing the Label

3.2 Switching on/off

You can switch the Birth Alarm Advanced transmitter on/off and operate it with the back of the special screwdriver supplied. On one of the long sides of the casing you will find two status lights.

To switch **ON** the Birth Alarm Advanced transmitter, proceed as follows:

- Place the back of the special screwdriver against one of the status lights.
- The Birth Alarm Advanced transmitter will now switch on. Switching on can be recognized by the green illumination of both status lights.
- Your Birth Alarm Advanced transmitter is now switched on. The status lights will briefly light up green every five seconds. It indicates that the Birth Alarm Advanced transmitter is switched on and that the status is correct.



To switch the Birth Alarm Advanced transmitter **OFF**, proceed as follows:

- Place the back of the special screwdriver against one of the status lights.
- The Birth Alarm Advanced transmitter will now switch off. Switching off can be recognized by the red illumination of both status lights.
- Your Birth Alarm Advanced transmitter is now switched off.



4 The inside of the Birth Alarm Advanced Transmitter

Below is an overview of the system components you will need to operate and use the system.

1. Batteries.
2. The two status lights
3. The connection button (pair button)
4. The reset button
5. USB connector (for software updates)



4.1 Installing/replacing batteries

When replacing the batteries for your Birth Alarm Advanced transmitter, you should always use alkaline batteries (preferably "Duracell", "Panasonic", or "Varta"). The use of rechargeable batteries is not recommended. Always replace all 3 batteries at the same time. If you cannot remove the batteries with your fingers, you can also use a small screwdriver, as long as it is done with care. The batteries must always be placed with their negative pole on the spring.



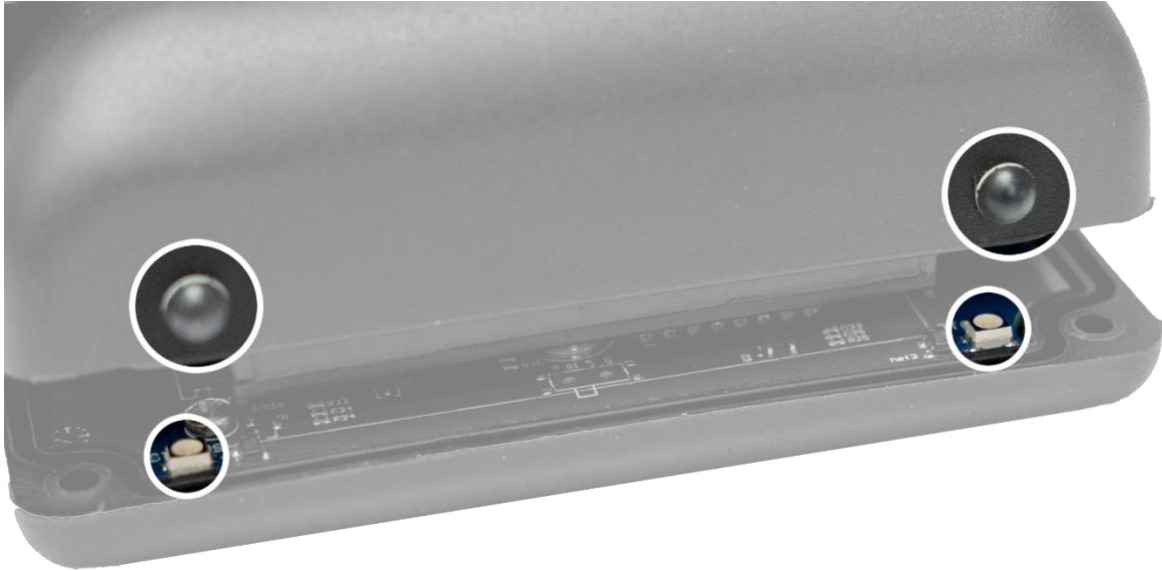
Always use new batteries at the beginning of the foaling season!



If you will not be using Birth Alarm Advanced transmitter for a longer period of time, such as after the foaling season, you should remove the batteries to prevent them from leaking and causing damage to your Birth Alarm Advanced Transmitter.

4.2 The casing of the Birth Alarm Advanced Transmitter

The casing of the Birth Alarm Advanced can only be closed in one way. The light guides on the long side of the cover must be on top of the status lights when the cover is screwed down.



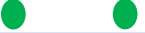

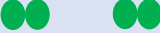



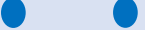

5 The lights (LEDs) of the Birth Alarm Advanced transmitter

To view the status of your Birth Alarm Advanced transmitter, two status lights are placed on it.

5.1 The status lights

The status lights are on the long side of the casing. These lights both behave exactly the same. The double version is only meant to be able to read the status of your mare both left and right at all times.

In the table below you will find the possible colour patterns that the Birth Alarm Advanced can display.

Colour / pattern	Meaning
	 Standby, battery okay
	 Standby, battery okay, sleep mode enabled
	 Standby, battery weak
	 Transmitter sends signal to receiver

6 Birth Alarm Advanced Receiver

The Birth Alarm Advanced receiver has been designed as a compact module that gives you complete information about your mare and the connected transmitter(s).

6.1 The components of the Birth Alarm Advanced Receiver

The Birth Alarm Advanced receiver consists of the following components:

1. Display (with touch function)
2. Mounting clip. This is used to mount the Birth Alarm Advanced receiver on the standard or, for example, on the trouser belt.
3. A 3-colour LED that allows extra emphasis to be placed on the current state and displays short events.
4. A loud mini speaker to generate the alarm or other sound messages.
5. The USB connection for charging and updating the Birth Alarm Advanced receiver.
6. Reset button. It should be operated with a paper clip or thin pen if necessary.
7. Antenna
8. The POWER button / eco button
9. The screen hold button
10. The volume up button
11. The volume down button



6.2 Control of Birth Alarm Advanced Receiver

6.2.1 Switching on

To switch on the Birth Alarm Advanced receiver, press and hold the POWER button / ECO button at the top left of the screen for two seconds.



6.2.2 The eco mode

You can use this to put your Birth Alarm Advanced receiver into economy mode with the POWER button / eco button. This will turn the screen off and your receiver will use less energy. When an alarm or warning is received from one of the transmitters, the display will immediately turn on again.



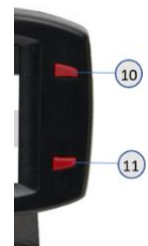
The eco mode button can be useful when, for example, you want to turn off the screen completely at night.

6.2.3 The volume buttons

With the volume buttons you can turn the volume up and down. You can also adjust the volume in the settings menu.



With the volume down button you can also turn off an alarm when an alert is received.



6.2.4 The display hold button

This button allows you to block the receiver's touch screen and buttons. Press and hold this button until the key symbol appears. To unlock the receiver, press and hold this button again.



You can use the display hold button when wearing the **receiver on** your belt trousers, so the receiver will not react if buttons are accidentally pressed by your movement.

6.2.5 Navigation on the main screen

After switching on, you will see the main screen. This consists, roughly, of two parts:

1. The navigation bar
2. The information field



6.2.5.1 The navigation bar

In the navigation bar you will see four tabs with a battery indicator (from the receiver itself) and a settings button.

When a Birth Alarm Advanced transmitter is logged on to your Birth Alarm Advanced receiver, an icon of a horse's head will become visible on the relevant tab. On the bottom left there is a small symbol which will show the status.

6.2.5.2 The information field

Under the navigation bar you will find the information field. Here you will see a status display of the mare and the Birth Alarm Advanced transmitter. This concerns the battery percentage, the reception strength, the status, the current reclining angle and sleep mode settings.



When you have selected a mare using one of the four buttons in the navigation bar, a small arrow will appear below this button. Clicking this arrow will scroll down a small selection menu. This allows you to select additional functions that you only use in special cases. You will find more information about this later in this manual.

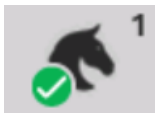
6.3 Meaning of symbols in the navigation bar

In the tabs of the navigation bar you'll see some miniature symbols that give information about the status of your mare or mares.



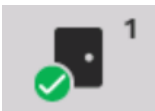
6.3.1 It **disconnect** symbol

This symbol is visible by default when no Birth Alarm Advanced transmitter is logged on to the relevant tab.



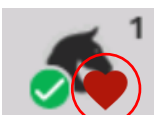
6.3.2 The **horse's head** symbol

This symbol indicates that a Birth Alarm Advanced transmitter has been logged on to your Birth Alarm Advanced receiver and that the alarm indicator has been set up as a birth detection system.



6.3.3 The **door** symbol

This symbol indicates that the relevant Birth Alarm Advanced transmitter is set as an anti-burglary alarm.



6.3.4 The **heartbeat** symbol

This symbol should normally be coloured red. Birth Alarm Advanced transmitter transmits a periodical signal as a sign that the mare is still within range.

When no periodical signal has been received for a longer period of time, the red colour will slowly fade away. If no signal has been received for too long, you will also receive a warning. The yellow warning symbol will appear and you will hear a warning tone. If a periodical signal is not received within the expected time, this symbol will turn red.



Once in a while a periodical signal can't come across, that's not a bad thing. However, if this signal is not received for a longer period of time, you will receive an alarm warning.



6.3.5 The **mini-status** symbol

The mini-status symbol is a small representation of the status in the information field. The colour and meaning corresponds to that of the large status symbol in the information field.



6.3.6 The **battery display of the receiver itself**

The battery display shows in blue the remaining capacity of the receiver's own battery. When the battery is charging, a small lightning symbol will appear.



6.3.7 The Settings button

On the top-right you will find the settings button. When you click on this, the settings menu appears (see chapter 9).

6.4 Meaning of symbols in the information field

In the information field you will see a clear display of the status of the mare, which you have selected with the tab-button.

6.4.1 The status display

This large symbol in the centre of the information window intuitively indicates the status of the selected Birth Alarm Advanced transmitter.



- When there is an alarm, the text "Birth Alarm" appears here in the red field.



- When there is a warning concerning the operation of the system, a question mark appears in the yellow field.

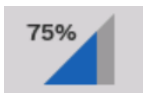


- When the system is OK and there are no messages, a field with a white "tick" appears here in the green field.



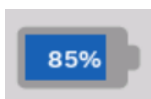
- When no transmitter(s) are connected, you will see a black signal symbol.

6.4.2 The reception display



The reception display (left in the middle) works just like you are used to on your smartphone. The blue part of the indicator turns blue for a shorter period of time as reception decreases. A percentage representation of the reception strength is also displayed.

6.4.3 The battery display



The battery (right of centre) shows the remaining battery capacity of the batteries of the Birth Alarm Advanced transmitter. When it exceeds 10%, we advise you to replace the batteries.

6.5 Registering a Birth Alarm Advanced Transmitter

When you switch on a Birth Alarm Advanced transmitter, it will first log on to the Birth Alarm Advanced receiver. This activates the tab with the number of the transmission. (The 'disconnect' symbol disappears and changes into a horse's head symbol). From this moment on, the Birth Alarm Advanced receiver will also check if the transmitter remains within range and active.

6.6 Logging off the Birth Alarm Advanced Transmitter

When you are no longer using a Birth Alarm Advanced transmitter, switch it off. When switched off, the transmitter will log off at the Birth Alarm Advanced receiver. The disconnected symbol will reappear on the corresponding tab and the Birth Alarm Advanced receiver will no longer monitor the transmitter.

7 Connecting the New Birth Alarm Advanced transmitter

If you have purchased an additional Birth Alarm Advanced transmitter, you must first connect it with your Birth Alarm Advanced receiver before using it. Connecting – which means "pairing" of an additional transmitter – goes as follows.

- Prepare the new transmitter according to the steps in chapter 3.
- Switch on the new Birth Alarm Advanced transmitter as described in 3.2.
- Now press the button with the caption "pair" on the circuit board of the Birth Alarm Advanced transmitter.
- On the receiver, click as soon as possible on one of the empty tabs (to which you have not yet connected another transmitter).
- Your Birth Alarm Advanced receiver will connect the new transmitter with the tab you have clicked.

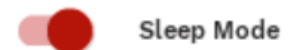
Once connected, the new Birth Alarm Advanced transmitter will remember its number and log in again next time. So, in principle, you only have to do this "pairing" once.

8 Programming other settings

8.1 Sleep mode

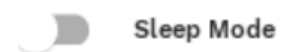
You use the sleep mode of the Birth Alarm Advanced if your peri-parturient mare rests fully stretched or sleeps. The sleep mode is a certain adjustment in the operation of the Birth Alarm Advanced. This adjustment ensures that an alarm as a result of the mare's only resting fully stretched is prevented. When you use the sleep mode, the Birth Alarm Advanced will check if your mare is lying stretched and is restless as well, as is the case with contractions. You can **enable** the sleep mode as follows:

- Slide the switch labelled "sleep mode" to the right.
- After the next signal from the Birth Alarm Advanced transmitter the sleep mode will be switched on.



Similarly, you can always **switch off** the sleep mode again:

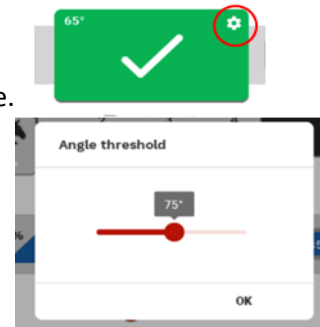
- Slide the switch labelled "sleep mode" to the left.
- After the next signal from the Birth Alarm Advanced transmitter the sleep mode will be switched off.



8.2 Angle setting

The Birth Alarm Advanced responds to the mare lying down with extended legs. In other words, it "measures" the extent to which your mare lies on its side. On average, an angle greater than 65° may be considered "abnormal" and the Birth Alarm Advanced will act on it. The Birth Alarm Advanced is set to 65° by default. However, you can raise this 65° threshold yourself if desired, so that the Birth Alarm Advanced comes into action later, or becomes less sensitive. To change the angle setting (for example to 70°) complete the following steps:

- Click on the small thumb wheel in the upper right-hand corner of the "status OK" symbol.
- Now a slider appears with which you can change the angle.
- Adjust the angle as desired.



You can set the angle between 60° and 75°.



It can occur that you get an alarm message every time you read in status symbol that the mare is just lying at 65°. When nothing is wrong, you can adjust the detection angle for this mare slightly upwards to, for example, 70°. When using sleep mode, reset the angle setting to 65°.

8.3 Colic position

The Birth Alarm Advanced gives you the possibility to use the system as a Colic reporting system. The system will then immediately warn you when a mare shows colic suspicious behaviour. To activate the colic position, proceed as follows.

- Click on the drop-down arrow under the tab of the mare in question.
- You can now see the colic symbol here.
- Click on this symbol, the symbol changes to active view.
- After the next signal from the Birth Alarm Advanced transmitter the colic position will be switched on.



You can also switch off the colic position in the same way.

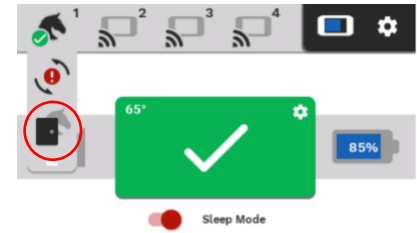
- Click on the drop-down arrow under the tab of the mare in question.
- You can now see the colic symbol here.
- Click on this symbol, the symbol changes to inactive view.
- After the next signal from the Birth Alarm Advanced transmitter the colic position will be switched off.

8.4 Anti-burglary alarm

You can use your system after the foaling season as an anti-burglary or anti-theft system. The system then triggers an alarm when the transmitter starts to move. You can fix the Birth Alarm Advanced transmitter, for example, to the door of your barn or under the saddle of your lawnmower. As soon as a movement is registered you will receive an alarm notification.

To activate the anti-burglary / anti-theft function, proceed as follows:

- Click on the drop-down arrow under the tab of the mare in question.
- You can now see the door symbol here
- Click on this symbol, the symbol changes to active view.
- After the next signal from the Birth Alarm Advanced transmitter the anti-burglary mode will be switched on.
- When you move the Birth Alarm Advanced transmitter slightly, you will receive an alarm notification.



You can also turn off the Anti-Burglary mode in the same way.

- Click on the drop-down arrow under the tab of the mare in question.
- You can now see the door symbol here
- Click on this symbol, the symbol changes to inactive view.
- After the next signal from the Birth Alarm Advanced transmitter the anti-burglary mode will be switched off.

9 The settings menu

Via the settings menu you can change various settings relating to the Birth Alarm Advanced receiver itself. To access the settings menu, click on the toothed wheel in the top right-hand corner of the screen.

9.1 Display brightness

To adjust the brightness of the screen, proceed as follows:

- Click on the "Brightness" button.
- You will now see a pop-up window with a red dot.
- When you slide it from left to right it can make the screen more or less bright.
- If you are satisfied, click on "OK".



A screen with lower brightness saves on battery power, but is especially useful if you have the Birth Alarm Advanced receiver on your bedside table. You can adjust the brightness between 10% and 100%.

9.1.1 Automatic brightness adjustment

The Birth Alarm Advanced receiver is equipped with a light sensor, allowing it to automatically adjust the brightness of the screen according to the ambient light. For example, if you turn off the light in the evening, the Birth Alarm Advanced receiver will automatically reduce the brightness of the screen. In the morning when it becomes light again, the screen will become brighter again.

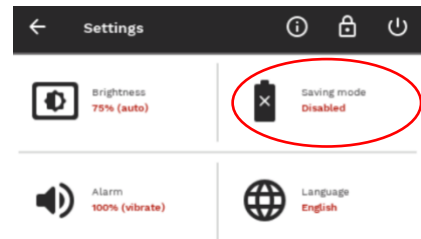
To activate or deactivate the automatic brightness control, proceed as follows:

- Click on the "Brightness" button.
- You will now see a pop-up window with a red dot.
- To the right of the slider you will find a sun symbol with an "A" in it.
- If you click on it, the symbol will turn red and the automatic control is enabled.
- If you are satisfied, click on "OK".

9.2 Eco mode

To save battery power or just to turn off the screen completely, proceed as follows:

- Click on "Saving" in the settings menu.
- The red text under "Saving" will change to "Enabled".
- If you do not operate the Birth Alarm Advanced receiver for 10 seconds, the screen will now turn off automatically. Apart from the screen, the Birth Alarm Advanced receiver is still operational.
- To turn the screen back on, tap the screen. The screen will then light up again.



9.3 Alarm Volume

You can set the sound intensity of the Birth Alarm Advanced receiver. This can be done via the volume buttons (6.2.3), but also via the settings screen.

To do this, proceed as follows:

- Click on the "Alarm Volume" button.
- You will now see a pop-up window with a red dot.
- When you slide it from left to right, the alarm volume can be turned up or down.
- The sound is turned on during the time you move the red dot so that you can judge the set volume.
- If you are satisfied, click on "OK".

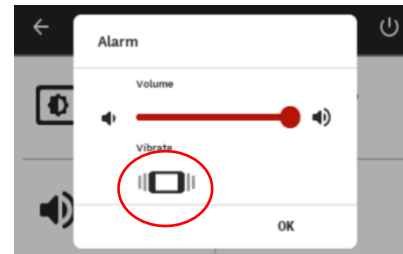


9.3.1 Vibration function

As an additional warning, the Birth Alarm Advanced receiver can emphasize an alarm or warning via an internal vibration function. You can enable or disable this function as follows.

To do this, proceed as follows:

- Click on the "Alarm Volume" button.
- Under the volume slider you will see the vibration function symbol.
- Clicking on the vibration function icon switches the vibration function on or off.
- If you are satisfied, click on "OK".

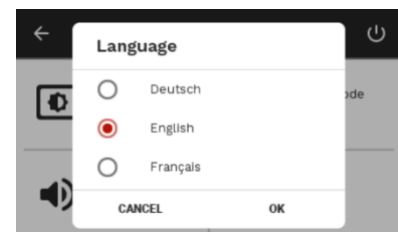


9.4 Setting the language

You can change the language in the settings menu.

To do this, proceed as follows:

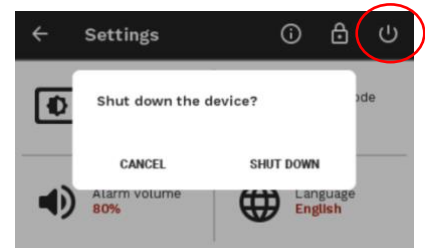
- Click on "Language". You can recognise this button by the globe symbol.
- You will now see a window with the languages: German, English, French, Dutch and Swedish.
- You can search for the language of your choice by moving your finger vertically across the window.
- Select the language of your choice by clicking on the circle in front of the language.
- Click "OK" to confirm your choice or "CANCEL" to reject it.



9.5 Disabling the Birth Alarm Advanced Receiver

You can switch off the Birth Alarm Advanced receiver. To do this, proceed as follows:

- Click the OFF button in the settings menu.
- You will now see a window asking whether you actually want to switch off the system.
- Click "SWITCH OFF" to switch off or "CANCEL" to return.



10. Testing

Due to the design of the system, the correct operation is actually continuously checked, but it is advisable to test the system before using it.

To do this, proceed as follows:

- Mount the Birth Alarm Advanced transmitter beneath a halter or in an anti-roll girth.
- Preferably take the Birth Alarm Advanced transmitter to where your mare is located.
- Take the Birth Alarm Advanced transmitter in your hands and switch it on so that the status light flashes green once every 8 seconds.
- Now turn the Birth Alarm Advanced 90 degrees and leave it hanging about 20 cm from the ground so that one of the narrow sides is facing upwards. (*Attention: When using the sleep mode, the Birth Alarm Advanced should also be horizontal again after 15 seconds*)
- The status light will now flash quicker and its colour will be orange.
- After a few seconds, the status light turns blue, and a connection is sent.
- The receiver will now give a signal.

If you want to do the test again, first put the alarm indicator back into horizontal position (or turn it off and on again) for 3 minutes.

If the test went well, you can apply the Birth Alarm advanced to your mare.



If you still experience problems, you can use the troubleshooter at the end of this manual.

10.1 The range.

The Birth Alarm Advanced receiver has a range of up to 500 metres under ideal conditions. In practice, however, there are several factors that will reduce the range. These are, for example, buildings, walls, trusses or sheet piling. But trees and fences also affect the range. The height of the transmitter and receiver will also play a role. Closer to the ground, the range will be reduced. When the mare has contractions she will lie down, so the transmitter gets closer to the ground and the range is reduced a bit.

Providing the Birth Alarm Advanced receiver with the small antenna also reduces the range. Even if you wear the Birth Alarm Advanced receiver on your belt, a considerable reduction in reception is to be expected. This is because the human body absorbs radio signals. So only do this when you are near your mare(s) and the signal remains strong enough, even when you are wearing the receiver.

So try to make sure that you place the receiver in a place where there are as few obstacles as possible in the way.

11 Fitting the Birth Alarm onto the mare

To use the Birth Alarm Advanced in a girth or underneath the halter, it must be attached to the holder supplied. To do this, proceed as follows:

- Carefully slide the Birth Alarm Advanced into the holder as shown in the picture below.
- Make sure that both status lights are visible.
- Then close the flap with the supplied closing clip.



In the example below, the status lights are placed in the direction of the closing clip, but you may also place the casing the other way around. This does not affect the operation.



11.1 Fitting the Birth Alarm beneath the halter

If you want to use the Birth Alarm Advanced beneath a halter, mount it as shown below using three tie-wraps.



11.2 Fitting the Birth Alarm into an anti-roll girth

If you are using the Birth Alarm Advanced in an anti-roll girth, you must mount the holder with the Birth Alarm Advanced in accordance with the illustration below. You use six tie-wraps for securing it into an anti-roll girth.



12 Summary and modes of use

Below is a brief description of how the Birth Alarm Advanced works and how it should be used. We recommend that you read this text.

The Birth Alarm Advanced transmitter checks the position of your mare once every eight seconds. In the intervals the Birth Alarm Advanced will switch to an energy-efficient state so that the battery is not overloaded. When your mare has contractions and therefore lies down stretched out, the Birth Alarm Advanced transmitter will send an alarm signal to your Birth Alarm Advanced receiver.

You can turn an alarm off again by clicking on the red alarm symbol in the information window or on the red button at the bottom right of the casing.

If something has happened that restricts the operation of your system, you will see a yellow area with an exclamation mark on the information field of the Birth Alarm Advanced receiver. Then check what is going on. The battery may be empty or the reception may be insufficient.

With a set of alkaline batteries, a Birth Alarm Advanced transmitter can usually operate for one month. The use of rechargeable or the cheaper zinc-coal batteries is strongly discouraged!


You can leave the Birth Alarm Advanced receiver connected to the mains via the adapter and the USB cable. Only when you want to carry the receiver or place it somewhere else for a few hours, disconnect the cable and let the Birth Alarm Advanced receiver run on its internal battery.

13 Technical data

Supply voltage	4.5V (3xAA Alkaline)
Power consumption	0.8mA average (0.2A peak)
Connection	868Mhz ISM band
Maximum number of transmitters	4
Sleep mode	Yes
Detection angle	Adjustable 65..80°
Notification types	Sound and Vibration

Guarantee: until 2 years following the purchase date. Does not apply in the event of breakage, water damage and/or other damage. **The manufacturer and importer are not liable for any damage whatsoever arising from the use of the Birth Alarm Advanced. Delivery and activities are carried out according to the general conditions of Gallagher Europe B.V. .**

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