Birth Alarm Lite 2.0

EN Manual

Thank you for purchasing the Birth Alarm Lite 2.0. This is an extremely reliable reporting system for foal births. We advise you to read this manual carefully before commissioning; proper assembly and operation are essential for correct operation.

Inhoud

1. Introduction

When your mare is giving 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 Lite 2.0 makes good use of this tendency. By simply fitting the Birth Alarm Lite 2.0 beneath the mare's halter (or into an anti-roll girth), it will warn you when the delivery starts.

2. Contents

1. **The Birth Alarm Lite 2.0 birth detector**.
2. **The special holder** (This is where the Birth Alarm Lite 2.0 is inserted) The holder can be fitted beneath the mare's halter or in the ring of the anti-rolling girth.
3. **Cable ties.** To get started, we have supplied a number of cable ties (also called "Tie- wraps"). These cable ties are for single use, but they are available at any DIY store.
4. **The special screwdriver.** On the one hand, you can use this to unscrew your Birth Alarm Lite 2.0 (e.g. when the batteries need to be replaced or when you need to remove the SIM card). But there is also a strong magnet on the back of this screwdriver. It allows you to operate the Birth Alarm Lite 2.0.
5. **USB cable.** You will need this - or a similar cable - if you want to update the system software.
6. **SIM card adapter set.** In this set you will find a number of holders with which you can adjust the size of your SIM card. You don't necessarily need this, but it can be helpful if you want to set the SIM card with your own phone and your own phone accepts a different size SIM card.
7. **Documentation.** You will find 2 types of documentation with your Birth Alarm Lite 2.0. Namely:

    a. **QuickStart Guide** (short and concise manual)
    b. **TroubleShooter** (You can use this checklist if you have problems using the Birth Alarm Lite 2.0)
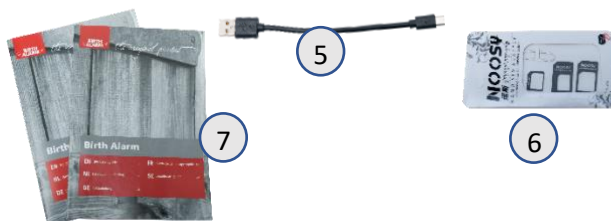
3. Preparing for use

3.1 The first time

To use Birth Alarm Lite 2.0 for the first time, you must perform these steps once:

- Unscrew the Birth Alarm Lite 2.0 and remove the red label which is placed against the pole of one of the batteries. The batteries now make contact with the Birth Alarm Lite 2.0.
- Install the SIM card. SIM card not included, but can be easily purchased at a mobile phone provider or local supermarket.
- The chapter "Installing a new SIM card" *(see 6)* explains how to set up and install a newly purchased SIM card.
- Once you have completed these steps with your Birth Alarm Lite 2.0, you can close it again and continue with the settings. When screwing in, ensure that the light conductors are placed above the status lights *(see 4.2)*

Unscrewing

Removing the Label

If you have good reception with your mobile phone in the stable or field where your mare is, we recommend that you purchase a SIM card from the same provider.

There may be special regulations in your country regarding the use of SIM cards in automatic mobile systems (M2M). Ask your mobile phone provider or mobile phone specialist whether this is the case.

3.2   Switching on/off

You can switch the Birth Alarm Lite 2.0 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 2 status lights.

To switch the Birth Alarm Lite 2.0 **ON**, proceed as follows:
- Place the back of the special screwdriver against one of the status lights. (it does not matter which of the two)
- The Birth Alarm Lite 2.0 will now switch on. This is indicated by both status lights illuminating green.
- You can now remove the back of the screwdriver.
- Your Birth Alarm Lite 2.0 is now switched on. The status lights will briefly illuminate green every ~5 seconds to indicate that the Birth Alarm Lite 2.0 is switched on and that the status is correct.

To switch the Birth Alarm Lite 2.0 OFF, proceed as follows:
- Place the back of the special screwdriver against one of the status lights. (it does not matter which of the two)
- The Birth Alarm Lite 2.0 will now switch off.
- You can now remove the back of the screwdriver.
- Your Birth Alarm Lite 2.0 is now switched of. The status lights will stay off.

4 De binnenkant van de Birth Alarm Lite 2.0

Below is an overview of the system components.

1. Batteries.
2. The 2 status lights
3. SIM card slot
4. USB-connector (for software update)
5. LTE status led
   5.1 "NET" – led
   5.2 "RING" – led
   5.3 "LTE" – led
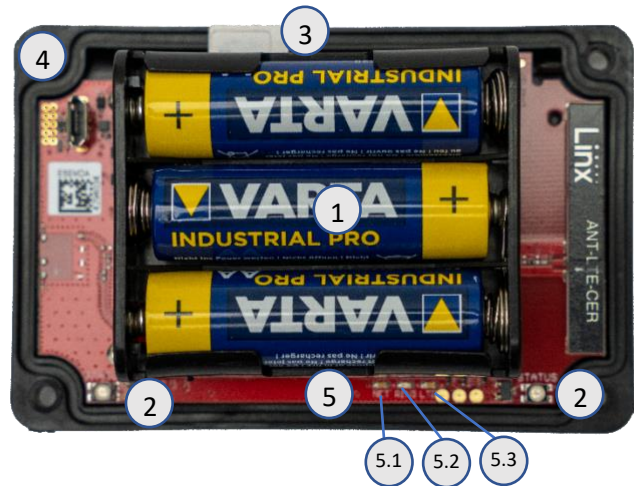
4.1 Installing/replacing batteries

When replacing the batteries for your Birth Alarm Lite 2.0 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 Lite 2.0 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 Lite 2.0.

4.2   Housing of the Birth Alarm Lite 2.0

The housing of the Birth Alarm Lite 2.0 can only be screwed down in one way. The light guides on the long side of the lid must be on top of the status lights when the lid is screwed down.
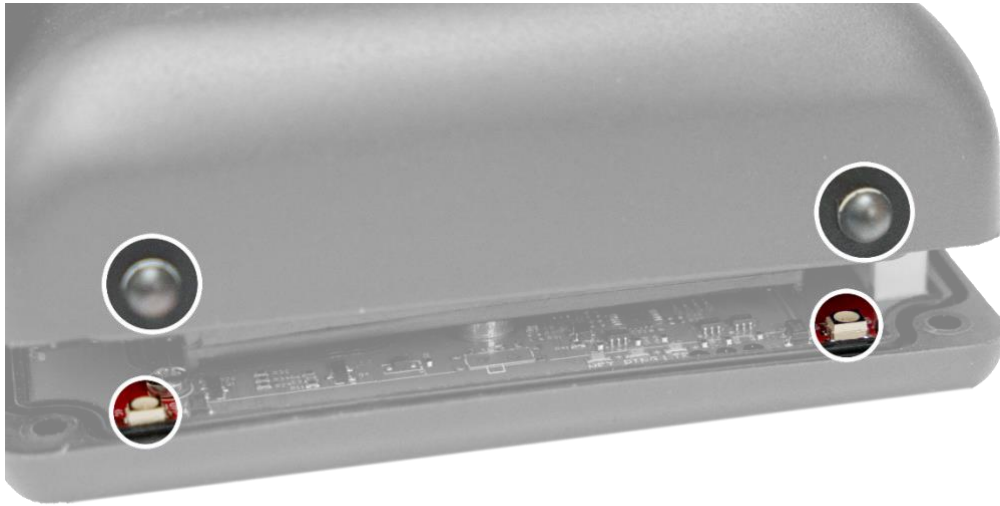
4.3   Inserting the SIM card

Your Birth Alarm Lite 2.0 works with a micro-sim. Modern SIM cards come in a break-out frame from which you can click out the micro-sim format. Please note that the micro-sim format is usually the second smallest format at 12 x 15 mm.

The SIM card must be inserted into the Birth Alarm with the chip at the bottom. Also pay attention to the slanted edge of the SIM card. It must point forward when you insert the SIM card.
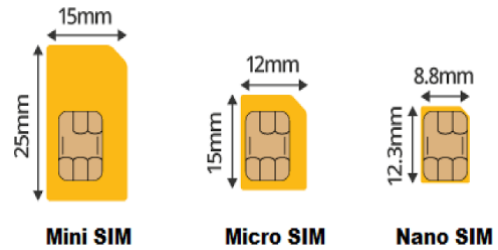Push the SIM card into the slot until you hear a "click". Then release the SIM card again. The SIM card is now in the slot and the Birth Alarm Lite 2.0 is ready to be used. When you want to remove the SIM card from the slot, gently push against the SIM card until you hear another "click". If you now release the SIM card again, the SIM card will come forward so that you can easily remove it.

(For more information about the SIM card see chapter 6)
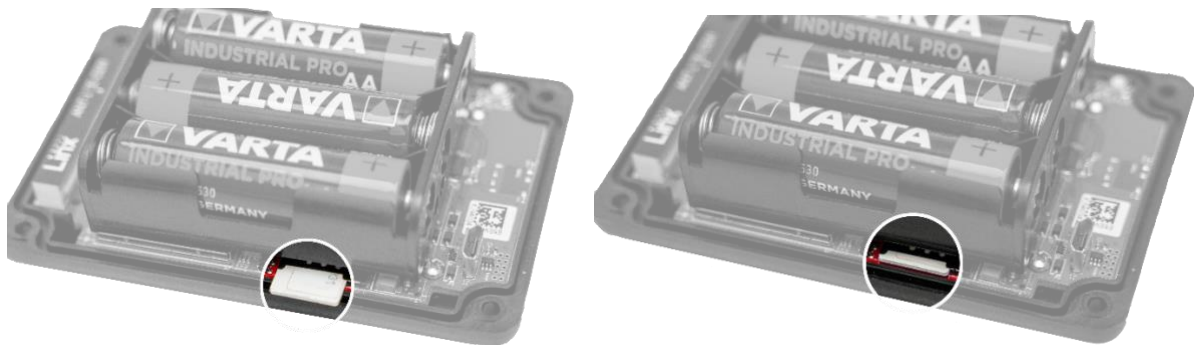
5   Birth Alarm Lite 2.0 (Led) lights

To view the status of your Birth Alarm Lite 2.0, there are 2 status lights on your Birth Alarm Lite 2.0 and 3 small lights on the inside that only relate to the internal LTE module.

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 indicate 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 Lite 2.0 can display.

Colour / pattern	Status
🟢 🟢 🟢	Stand-by, battery okay
🟢🟢 🟢🟢 🟢🟢	Stand-by, battery okay, sleep mode enabled
🔴 🔴 🔴	Stand-by, battery weak
🔵 🔵 🔵	LTE/GSM active, connecting
🔴🔵 🔴🔵 🔴🔵	LTE/GSM active, network reception insufficient
🟡🔵 🟡🔵 🟡🔵	LTE/GSM active, network reception moderate
🟢🔵 🟢🔵 🟢🔵	LTE/GSM active, network reception good

5.2 The LTE lamps

The LTE lamps are only visible when opening the Birth Alarm Lite 2.0. Normally, you don't need to read these lamps, but it may come in handy if you are experiencing problems with the mobile connection and contact customer services.

In the table below you will find the possible flashing patterns and their meaning:

Name	Pattern	Status
NET		Module connects to the network
NET		Module is connected to the network
NET		Module is calling
RING		Module receives a call
LTE		Module is switched on

6   Installing a new SIM card

The SIM card is not included. You will have to purchase it yourself.

6.1   SIM card choice

Buy a prepaid SIM card or possibly a SIM card with a cheap Sim-Only or data + voice contract at your mobile specialist shop. Preferably choose a provider that you know offers good coverage at the location where you want to use Birth Alarm Lite 2.0. Usually, a prepaid card is the easiest to use. However, it is possible that the regulations for SIM card use in automatic mobile systems (M2M) in your country do not allow the use of a regular mobile number. Please check whether this is the case.

In the Netherlands, for example, it is not permitted to use a prepaid card from a regular mobile number for an automated calling system. Go to your telecom provider for a suitable contract or visit www.birthalarm.com for a suitable SIM card solution.

6.2   Preparing a SIM card (general)

When you have purchased a SIM card, you still need to activate it. This goes as follows:
- Insert the newly purchased SIM card into your device.
- If your device asks for a PIN code after switching on, enter it. The PIN is mentioned in the booklet or in the letter that comes with your SIM card. Incidentally, in most cases the PIN code is "0000". **Then you need to deactivate this pin protection on the SIM card. Your phone is not allowed to ask for a PIN code when you switch it on with the SIM card. Refer to the user manual of your telephone to find out how this works.**

6.2.1   Prepaid SIM cards and prepaid call credit

If you are using a prepaid SIM card, it is wise to keep an eye on your credit balance. With normal use, the call and SMS costs of your Birth Alarm Lite 2.0 are minimal, but still check the prepaid SIM card credit regularly. This is done by inserting the SIM card into your device and calling your provider's call credit/ top-up service line. Make sure that there is at least £10 on the card, and that the credit remains valid for a sufficient period of time. If the prepaid credit is insufficient, you will need to top it up via a credit card, which is often available at supermarkets or petrol stations, or via a top-up code that you can buy online.

6.2.2   Subscription card or Internet/data cards

If you use a subscription card/data card, make sure that your provider enables voice and SMS functionality on your card. In most cases, this is not activated automatically for data cards.

6.3   Preparing the SIM card.

Once you have set up your SIM card you will need to do the following:

- Call someone at least once. It may be that the provider sends a welcome message, wait for this to happen, and wait until the chosen number rings.
- Now check whether the voicemail of the SIM card is switched off. This is done by calling the number of the SIM card with another device. If you are connected to a voicemail service instantly or after some time, the SIM card's voicemail is switched on. In this case, you should disable voicemail.
- Usually, you can deactivate the voicemail service by calling the provider's customer service or by entering and calling a specific deactivation code. How to deactivate the voicemail is different for each provider and is mentioned in the manual of your SIM card.
- Now remove the SIM card from your device and insert it into the Birth Alarm Lite 2.0 (see 4.3).

Never program the SIM card's own number on M1 or any of the SIM card's other memory locations!

7 Programming telephone numbers

7.1 Programming mode

To programme the Birth Alarm Lite 2.0 directly, proceed as follows:

Place the back of the screwdriver against one of the status lights on the long side of the casing **for a few seconds.** While doing this, the status lights will first illuminate green 3 times and then blue. When the status lights illuminate blue you can remove the screwdriver. The Birth Alarm Lite 2.0 is now in programming mode.

7.2 Programming telephone numbers

Programming the telephone numbers can be done in 3 ways. Namely, by calling, by SMS or by direct programming. All possibilities are described in detail below. **However, you only need to choose 1 method,** "Calling" is the most popular. The 4 numbers that the Birth Alarm Lite 2.0 can call have the names "M1" and "M2".

7.2.1 Programming by dialing

- Set the Birth Alarm Lite 2.0 to "Programming mode" *(see 7.1)*. Wait until the status light alternately flashes blue once- green once.
- Now you call the Birth Alarm Lite 2.0. Preferably with your mobile phone.
- The Birth Alarm Lite 2.0 will now receive your call and programme your telephone number into its memory.
- In confirmation of this, the Birth Alarm Lite 2.0 will now call you back. Just let your phone ring, don't answer and don't refuse the call.

Programming is now complete. The Birth Alarm Lite 2.0 now knows your number and will call you when the mare is giving birth. You can now wait 2-3 minutes. The Birth Alarm Lite 2.0 will automatically exit the programming mode and is ready to be used.

If you would like to pre-program the second number, please follow the steps below.
- Wait until the Birth Alarm Lite 2.0 flashes blue once, green **twice**.

- Now you call the Birth Alarm Lite 2.0 with the device on which you want to be called on in **2nd** place (this may also be a landline telephone connection).

- The Birth Alarm Lite 2.0 will now receive your call and programme your telephone number into its memory.

- In confirmation of this, the Birth Alarm Lite 2.0 will now call you back. Just let your phone ring and don't react to it.

Light pattern status-LED	Meaning
🔵🟢 🔵🟢 🔵🟢	The module is ready for the first call
🔵🔵🟢 🔵🔵🟢 🔵🔵🟢	The module is ready for the second call

*The number of green flashes on the Birth Alarm Lite 2.0. indicates which number is programmed. For example, blue once and green **four times** mean that you programme the 4th number.*

7.2.2 Programming by SMS

You can also programme the Birth Alarm Lite 2.0 through SMS. Please proceed as follows: Send an SMS message on your mobile phone saying: "**M1:**" (Caution! Use capital **M**) immediately followed by the desired first number. The table below shows an example of an SMS in your country.

Country	Country code	Example of your mobile number:	Voorbeeld van de op te stellen SMS: (Note: use capital "M" and type everything together without spaces)
Netherlands (NL)	+31	0 6 12345678	M1:+31612345678
Belgium (BE)	+32	0 491 123456	M1:+32491123456
France(FR)	+33	0 6 12345678	M1:+33612345678
Switzerland (CH)	+41	0 176 12345678	M1:+4117612345678
Austria (AT)	+43	0 664 1234567	M1:+436641234567
England (UK)	+44	0 7788 123456	M1:+447788123456
Sweden (CH)	+46	0 707 123456	M1:+46707123456
Germany (DE)	+49	0 171 1234567	M1:+491711234567

So, as you can see in the table, you actually program the country code instead of the very first "0" you are normally used to when calling a mobile number.

- Set the Birth Alarm Lite 2.0 to "Programming mode" *(see 7.1)*. Wait until the status light alternately flashes blue once- green once.
- Now send the SMS you have just set up to the Birth Alarm Lite 2.0 mobile number.
- After a short period of time you will receive a status SMS from the Birth Alarm Lite 2.0 as confirmation. This contains the number you have programmed behind M1:

- Of course, you can also programme the number of M2 in the same way. You can also program several numbers in one SMS simultaneously, but start a new line in your SMS for each number.

If you want to delete a number via SMS, simply send the corresponding memory location without a number behind it.

It is strongly recommended to programme a mobile number as the first number (M1). This is how the Birth Alarm Lite 2.0 can send you SMS messages and receive SMS messages from you

You can also programme the numbers via SMS while you test the birth detector. (see 10) While the NET light on the Birth Alarm Lite 2.0 is flashing quietly (long green with short interval), you can send an SMS with telephone number(s) or new settings, and Birth Alarm Lite 2.0 can process them.
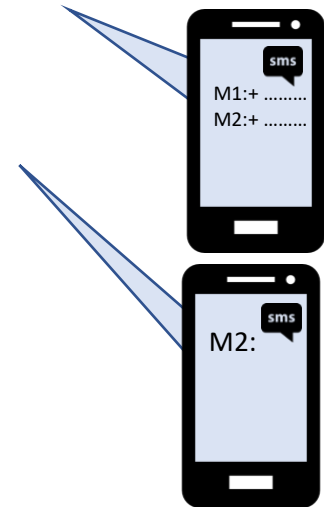
7.2.3 Direct programming

There is always the option of programming Birth Alarm Lite 2.0 by temporarily inserting the Birth Alarm Lite 2.0 SIM card into your own or another mobile phone and programming the numbers on the SIM card via this phone. This is usually a more complex way. To programme the SIM card directly, proceed as follows:

- Now insert the SIM card into another mobile phone.
- Switch on the mobile phone.

If you do not succeed in programming the numbers on the SIM card memory places 11 and 12 via your mobile phone, you can also insert the SIM card into the Birth Alarm Lite 2.0 and set it to programming mode. The Birth Alarm Lite 2.0 will notice that the SIM card is not configured and will programme the memories in the right places on the SIM card so that you can use them.
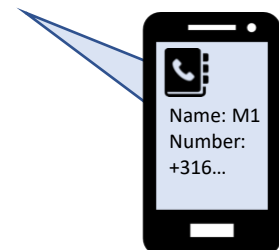
8.   Sleep mode

You use the "sleep mode" of the Birth Alarm Lite 2.0 if your peri-parturient mare rests fully stretched (sleeps). The sleep mode requires a certain adjustment in the operation of the Birth Alarm Lite 2.0. This adjustment ensures that an alarm as a result of the mare resting fully stretched is prevented. When you use the sleep mode, the Birth Alarm Lite 2.0 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:

- Create an SMS message on your mobile phone saying: "**SL:1**" (Note: use the capitals **SL**)
- Set the Birth Alarm Lite 2.0 to "Programming mode" *(see 7.1)*. Wait until the status light alternately illuminates blue once- green once.
- Now send the SMS you have just set up to the Birth Alarm Lite 2.0 mobile number.
- After a short period of time you will receive a status SMS from the Birth Alarm Lite 2.0 as confirmation. It now says "SL:1" on the last line as a sign that the sleep mode is switched on.

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

- Create an SMS message on your mobile phone saying: "**SL:0**" (Note: use the capitals **SL**)
- Set the Birth Alarm Lite 2.0 to "Programming mode" *(see 7.1)*. Wait until the status light alternately illuminates blue once- green once.
- Now send the SMS you have just set up to the Birth Alarm Lite 2.0 mobile number.
- After a short period of time you will receive a status SMS from the Birth Alarm Lite 2.0 as confirmation. It now says "SL:0" on the last line as a sign that the sleep mode is switched off. The Birth Alarm Lite 2.0 now works normally again.

9.   The SMS status message

Birth Alarm Lite 2.0 will send you an SMS status message if you have changed a setting or telephone number on Birth Alarm Lite 2.0 or if you receive a birth notification. This SMS status message provides you with information about the current settings and programmed telephone numbers on Birth Alarm Lite 2.0. It also gives you some measured values regarding the mare and Birth Alarm Lite 2.0 itself.

Measured

values

Programme

settings

SMS-Message:	Meaning:
Battery 60 %	Remaining battery capacity
Signal 51%	Signal Strength
M1: +31612345678	This is the first number to be dialed
M2: +31644332211	This is the second number to be dialed
SL:0	Sleep mode is switched off (0)

- *When you see that the battery percentage drops below 20%, the batteries must be replaced!*
- *When you see that the signal strength is sometimes lower than 20% we advise you to choose another provider that has better coverage at the place where you use the Birth Alarm Lite 2.0.*

"M1" stands for "Memory 1".

"SL" stands for "Sleepmode".

10. Testing

Before you start using Birth Alarm Lite 2.0, it is important to test it to ensure that it works properly. You can easily do the testing yourself.

- Preferably take the Birth Alarm Lite 2.0 to where your mare is located.
- Take the Birth Alarm Lite 2.0 and switch it on so that the status light flashes green once every 4 seconds.
- Now turn the Birth Alarm Lite 2.0 90 degrees so that one of the narrow sides is facing upwards. *(Attention: When using the sleep mode, the Birth Alarm Lite 2.0 should also be horizontal again after 15 seconds)*
- The status light will now flash orange.
- After a few seconds, the status light turns blue, and a connection is made.
- Within a short time the Birth Alarm Lite 2.0 will now call the number programmed under "M1".
- Do not answer or reject the call via the red button, just let the phone ring.
- The Birth Alarm Lite 2.0 stops ringing automatically after a few seconds.

Now you can stop the Birth Alarm Lite 2.0 by simply calling it. The Birth Alarm Lite 2.0 will reject your call, but now you have stopped the Birth Alarm Lite 2.0. The Birth Alarm Lite 2.0 will then not call any further numbers unless it is tilted again after being below the critical angle for a few minutes.

If the test worked, Birth Alarm Lite 2.0 is ready to use on your mare.

If you still experience problems, you can use the "troubleshooter' provided.

You can programme the mobile number of the Birth Alarm Lite 2.0 into your own mobile phone with the name "Mare" or "Birth". You will then be able to see in advance in the screen of your mobile phone when the Birth Alarm Lite 2.0 calls you, so you do not have to answer the call.

When you receive a call from Birth Alarm Lite 2.0 - whether it is a birth announcement or during programming - never answer a call from Birth Alarm Lite 2.0. When you pick up, you are basically having "a conversation" with the Birth Alarm Lite 2.0 and that costs unnecessary money! Don't push a call away either (pressing the red button) because in that case, the Birth Alarm Lite 2.0 may be forwarded to your voicemail.

11   Fitting the Birth Alarm onto the mare

To use the Birth Alarm Lite 2.0 in a girth or underneath the halter, it must be attached to the holder supplied as follows:

- Carefully slide the Birth Alarm Lite 2.0 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 locking clip, but you may also place the casing the other way around. This does not affect the operation.

11.2 Fitting the Birth Alarm beneath the halter

If you want to use the Birth Alarm Lite 2.0 beneath a halter, mount it as shown below using 3 tie-wraps. Make sure that the halter is slightly tight so that the Birth Alarm Lite 2.0 hangs straight under the mare's jaw.

11.3 Fitting the Birth Alarm into an anti-roll girth

If you are using the Birth Alarm Lite 2.0 in an anti-roll girth, you must mount the holder with the Birth Alarm Lite 2.0 in accordance with the illustration below. You use 6 tie-wraps for securing it into an anti-roll girth. Make sure that the detector is firmly placed horizontally in relation to the back of the mare.

12 Summary and modes of use

Below is a brief description of how the Birth Alarm Lite 2.0 works and how it should be used. We recommend that you read this text.

The Birth Alarm Lite 2.0 checks the position of your mare once every 4 seconds. In the intervals the Birth Alarm Lite 2.0 will switch to an energy-efficient state so that the battery is not overloaded.

When your mare has contractions and therefore lies down stretched, the Birth Alarm Lite 2.0 will call your own mobile phone. You will then see the Birth Alarm Lite 2.0 phone number appear on the screen of your mobile phone. If you save this number in the phone list of your mobile phone with for example the name "BirthAlarm" or "Mare", this name will also appear on your phone's screen. So now you know that the Birth Alarm Lite 2.0 is calling you. Contrary to what you would normally do, in this case you **do not** answer your phone! As a result, you do not make a "call" and the notification to you will be completely free of charge. The Birth Alarm Lite 2.0 stops ringing automatically after a few seconds. You can then call the Birth Alarm Lite 2.0 back, which is also free of charge. With this you let the Birth Alarm Lite 2.0 know that you have heard its call and the Birth Alarm Lite 2.0 will stop calling you. The Birth Alarm Lite 2.0 only becomes active again when the horse lies down again after some time.

If you do not call back the Birth Alarm Lite 2.0 within half a minute, the Birth Alarm Lite 2.0 will call the second number in its memory - if a second number has been programmed - and then wait another half minute for confirmation. For example, the Birth Alarm Lite 2.0 can warn a total of 4 telephone numbers/persons in the event of a birth. If Birth Alarm Lite 2.0 has called each number once without any of the numbers responding, BirthAlarm Lite 2.0 will call the first number again. After this, the Birth Alarm Lite 2.0 will also automatically send an SMS status message. This is an SMS message in which the Birth Alarm Lite 2.0 briefly and concisely states some important information about the lying angle, battery capacity, network coverage, etc. *(see 9)*

Incidentally, it should be noted that the Birth Alarm Lite 2.0 can also call a landline connection, which is your home phone, without any problems. If your landline is equipped with number recognition, you can also determine in advance whether the Birth Alarm Lite 2.0 will call you. If your landline telephone has no number recognition, you will be obliged to answer every call. You will then hear a sound by which you can recognise the Birth Alarm Lite 2.0. In this case you do have a call connection with Birth Alarm Lite 2.0 and a small amount will be deducted from the prepaid card of the Birth Alarm Lite 2.0. If you would like to use Birth Alarm Lite 2.0 in this way, we advise you to check your credit regularly. Make sure that this always remains above £10.

A set of alkaline batteries, will usually operate the system for at least a month. The use of rechargeable or the cheaper zinc-coal batteries is strongly discouraged!

13   Technical data

Supply voltage	4,5V (3xAA Alkaline)
Power consumption	200uA average (1,3A peak)
LTE Module	LTE FDD B1/B8/B7/B8/B20/B28
	WCDMA B1/B8 GSM/EDGE B3/B8
Memories	4
Sleepmode	Yes
Detection angle	adjustable 65..80°
Notification types	Calling / SMS

Guarantee: Up to 2 years after date of purchase. 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 Lite 2.0. Delivery and activities are carried out according to the general conditions of Gallagher Europe B.V.**

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