



BIRTH-WATCH For Horses

THE BIRTH ALARM WITH VISION

WWW.BIRTH-WATCH.COM



*24/7 digital temperature monitoring for your mare.
Automatic alert approximately one hour before the birth.
Available directly on your smartphone, tablet or computer.
Extremely user-friendly.*

MANUAL

VERSION
3-2019

Bookmark

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1. Introduction

Congratulations on your purchase of the Birth-watch *for Horses*.

The Birth-watch system registers the temperature of your mare and warns you when delivery is imminent.

In 99% of cases the mare's temperature drops approximately one hour before delivery, which is the signal for Birth-watch to warn you.

In a few cases there may be a certain stress factor in the mare, as a result of which the temperature will rise, in which case Birth-watch will also warn you that the delivery is imminent.

In short, Birth-watch provides you with a reliability of close to 100%.

Birth-watch will register the temperature of your mare every 5 minutes and automatically store and process the measurements.

You can view the measurements anywhere and anytime on your smartphone or tablet via the Birth-Watch app and/or from your laptop or computer via our site.

The Birth-watch system consists of, among others, a receiver and a transmitter/probe. The transmitter is attached to the mare, the receiver must be provided with mains power and internet via cable or Wi-Fi. The distance between the receiver and the transmitter (mare) varies per situation, but is on average at least 250 metres with a maximum of approximately 1000 metres.

The transmitter consists of a probe and transmitter housing. The probe should be inserted into the mare's vagina. The transmitter can be attached by means of a single suture, or with the harness developed specially for Birth-watch. By means of a wireless connection between the transmitter and the receiver, the measurements are registered and digitally available via the internet and/or your Birth-watch app.

2. Content

Birth-watch *for Horses* is delivered complete and consists of the following parts

1. Transmitter / probe
2. Receiver with antenna incl. unique code sticker
3. Adapter for the receiver + internet cable
4. Induction charging station with adapter and USB cable
5. Manual
6. Attachment harness (optional)
7. 4G SIM card + SIM card holder (optional)

All parts are illustrated below:



1. Transmitter /
Probe



2. Receiver +
antenna +
code sticker



3. Adapter +
internet
cable



4. Charging station + adapter + USB



5. Manual



6.Attachment harness



7. 4G SIM card + SIM card holder (optional)

Use

Before you can use Birth-watch *for Horses* it is important that you check the content and preparations.

1. Do you have all the necessary Birth-watch accessories in accordance with chapter 2 of this manual?
2. Is the transmitter's battery charged? The transmitters are delivered with a battery voltage of approximately 50%.
3. Is there a working mains power supply in combination with an internet connection (WI-FI) within range of the receiver? The receiver must be placed within range of the transmitter/horse. For optimal reception, this should be as close as possible to your horse.
4. Is there a tablet, computer/ laptop, smart TV or smartphone available where the data, including your e-mail, can be viewed?

After checking and installing the above points, you can install the Birth-watch step by step.

Step 1.

Before you can use the Birth-Watch, you must create an account and link your receiver to your account. To do this, you need to follow the following steps: First of all, connect your receiver to the mains using the supplied adapter. A green light will start to blink, wait until it lights up continuously. Next, you need to connect the receiver to the internet. This can be done in two ways. You can connect the receiver to the internet via the supplied (blue) internet cable (this is preferred because it gives a more stable connection) or you can connect it via your Wi-Fi network.

Option 1:

If you choose to connect via the supplied internet cable, you must insert this cable from your fixed internet connection into the upper (WAN) port of the receiver (nearest port to the mains power port). An orange light will illuminate. If both lights (1x green and 1x orange) are on, there is mains power and internet connection. You can continue with step 2.

Option 2:

To connect the receiver to your Wi-Fi network, do the following:

Pair your smartphone/tablet via the wireless network of the Birth-Watch receiver. To do this, go to your settings on your smartphone/tablet and select Wi-Fi "on", then select Birth-Watch. The password of the Birth-Watch receiver is: birth-watch

Note: you must be within a radius of 5 metres of your receiver. Then go to the internet page: <http://192.168.60.1> This will take you to the Birth-watch page.

Select the "Wi-Fi" option from the menu (see image on the right)

The Birth-Watch receiver will now automatically search for all Wi-Fi networks within range (this may take a few seconds).

Then click on the network with which you wish to connect the receiver and, if requested, enter the corresponding password.

- Then click on "connect". Connecting may also take a few seconds.
- After the connection has been made, the signal strength will become visible. In that case, you know that the receiver is connected to your Wi-Fi network.
- Then go to settings on your smartphone / tablet and disconnect the Birth-Watch Wi-Fi network and, if necessary, select the desired network.

Step 2:

Birth-watch has a special Birth-Watch application via the Bluecherry platform

Go to the website www.birth-watch.com. Click on the "Login Birth-Watch" button. (You can then choose the language at the top right-hand corner)

Choose the option "Create Account" and complete the following data:

- First name
- Last name
- Mobile phone number (your mobile phone number)

Please note that this concerns your telephone number including country code. For example, for the Netherlands: 0031 6 12 34 56 78. For example, for Belgium: 0032 475 12 34 56

- E-mail address (your e-mail address)
- Password
- Repeat password
- Country

Confirm the details entered by clicking on "Register your account".

To activate your account, you need to confirm the link in the confirmation e-mail. You can do this by clicking on the link.

After your account has been activated, go to www.birth-watch.com again, enter your e-mail address and the password you have chosen and then click on "Login". You will then enter the birth-watch platform.

Please note!

Before you can connect a receiver (IoT device), you must complete the subscription. If you do not have a (valid) subscription, the message "make sure you have the right licence to connect an IoT device" will appear. To use the application, you must have the correct licence. For this licence you pay €2 per month (excl. VAT). You can choose from the proposed terms (1, 2, 5 or 10 years). You must now confirm your subscription by paying the subscription fee. You can do this by, for instance, choosing a 1-year subscription in the web shop. The costs are €2 per month excluding VAT (or € 29.04 per year). After you have made this payment, you can proceed with the installation and linking of your receiver.

You can set the correct language at the top right.

You can now link your receiver to your account by choosing "connect new IoT device".

You will then be directed to a page where you must enter the "BC Access code" of your receiver. You received a unique code sticker with your receiver, on which this code is mentioned. We recommend that you keep this sticker or stick it on the receiver.

Enter the BC access code that is mentioned on the sticker. Please note that this code is case sensitive. After entering and verifying the code, select "connect".

Your Birth-watch receiver is now linked to your account. You will see the logo of Birth-Watch with KIM underneath. This is what we call "platform". From now on, you can set, control or view it from anywhere in the world.

After you have linked the receiver to your account, €5 call credit will be automatically allocated to it. You do not have to do anything for this. You will receive this credit from Birth-Watch, so that you can immediately start using the Birth-Watch birth alarm. It is important to keep an eye on your credit balance, because if you run out of credit you will not be able to receive any calls! You can find the status of your credit by choosing "credit overview" on the platform. You can top up your credit via the web shop button, for which there is a direct link in the platform. In addition, you will receive an e-mail from Bluecherry that your credit is low, so be alert.

By logging into your Birth-Watch account you have access to the data of your Birth-Watch alarm anytime, anywhere.

Install the "birth-watch" application (app) once on your smartphone, tablet, laptop or smart TV to log into your Birth-Watch account more easily.

You can find the birth-watch app for free in the app store or Play Store.

Step 3:

You can now link your transmitter(s) to your receiver.

After you have logged into your Birth-Watch account (via www.Birth-watch.com > login) you will see the Birth-Watch logo on the "platform". A green bar under the logo indicates that your receiver is online, in this case you can use Birth-Watch. A red bar indicates that your receiver is offline. In this case you first need to restore the internet or power connection.

When the bar turns green, click on the logo and you will automatically be taken to the environment where you can monitor and set up your measurements of the animal.

It is important that you begin by entering some basic settings once.

Starting with your telephone number where you can be reached for any Birth-watch calls. To do this, follow the steps below:

Destinations Please note:

The option "Switch Offline Notifications" must be enabled to provide you with alerts. It is therefore necessary to check this option in order to receive alerts from Birth-Watch.

If you have not checked this option you will not receive any notifications!!!
(Within the framework of European regulations, it is necessary that you give your own permission for this)

To enter the telephone numbers and/or e-mail addresses where you can be reached, follow these steps.

You must choose the button "Add message destination".

In this screen you can fill in your name, you can set the language and you can choose the type of destination. You can receive a message by SMS, telephone call and/or e-mail.

We recommend that you in any case select the "telephone call" option, as a result of which you will receive a telephone call in the event of a possible Birth-Watch alert.

In special cases, an SMS or e-mail message is also sufficient, but we would like to draw your attention to the fact that you may not notice this message immediately/on time. A telephone call will probably reach you faster and more directly.

If you wish to receive a call, please select "telephone call" under type of communication. Then select the country code and enter your telephone number. Please note that the phone number you enter must be without the first 0, e.g.

+31 6 12 34 56 78

Then click on "Add" and your destination will be saved.

If you want to send an SMS, you have to do the same as described above. In this case, you only have to select the option "SMS" under type of communication.

If you want to be informed of a possible upcoming delivery via e-mail, please choose e-mail and enter your e-mail address at message destination.

You can repeat this multiple times and add multiple destinations.

You can later choose which destination you want to link to an animal. More on this later in this manual.

After you have saved the destination, you can test it. We recommend that you do this test. To do so, click on the entered destination and then on "test destination". If you have filled in the data completely and correctly, you will receive a message from Birth-watch within a few seconds.

Transmitters

After entering at least one destination, choose the option "transmitters" via the menu.

Here you link the supplied transmitters that you have received once, the code (consisting of 8 characters) is on the transmitter housing.

Choose the option "add transmitter", enter the complete code and press "add". Repeat this for all transmitters if you have several.

So far the one-time basic settings. If you want to add an animal immediately, follow the steps below.

Animals overview

In the menu choose "animals" and then "add animal" to add your horse.

Fill in the details completely. Below you will find an explanation of each part you need to fill in.

"Type of animal".

As Birth-Watch is suitable for both cows and horses, the app has been developed so that you can track both animals in one app. Choose the particular animal you

You can also add a year to the horse's name to make a clear distinction when using Birth-Watch over several years.

wish to link, it is defaulted to horses.

"Animal name"

At "Animal Name" enter the name of your animal.

"Max temperature"

You can change the "maximum permitted temperature" yourself, but it is defaulted to 38.5 degrees Celsius. This value checks the absolute temperature of your mare. If there is an increase in temperature and the set limit is exceeded, you will receive a message to this effect.

In principle, you do not need to make any changes to this standard value, this can of course be adjusted or changed at any time, e.g. when your horse has a fever, you can increase this temperature so that you do not keep receiving a message. If the temperature is higher than 38.5 degrees, we advise you to contact your veterinarian about this.

"Min temperature"

The minimum permissible temperature is set to 37.0 degrees Celsius by default. This value can also be adjusted by you.

This value also checks the absolute temperature of your mare. If there is a decrease in temperature and the set limit is exceeded, you will receive a message to this effect.

If the temperature has dropped below 37.0 degrees this can mean that a birth is imminent, but it can also have several other meanings.

Make sure that the transmitter is fully inserted into the mare's vagina; if the transmitter is fully or partially out of the vagina, the measured temperature is influenced by the outside temperature and you will have to repair it.

If the transmitter was not placed correctly, after recovery it will automatically display the correct temperature of your mare on the 2nd or the 3rd measurement (it is possible that the transmitter has cooled down so much that the 1st or 2nd measurement is still not quite correct).

It is also possible that the absolute temperature of your mare drops very quickly in a few minutes if, for example, your mare drinks (a lot of) cold water in a short time, causing the body temperature to drop for a few minutes.

In this case, you do not need to take any action, the temperature will return to normal by itself.

The absolute temperature is an extra built-in safety feature and is also very important during the first 24 hours from the moment you have connected your mare to Birth-Watch. This is because during the first 24 hours there is no average temperature and therefore you only receive a report based on the measurements of the absolute temperature.

In most cases, the absolute temperature of your mare will drop to or below about 37.0 degrees an hour before giving birth.

You can therefore choose to change the minimum allowed temperature to e.g. 37.2 or 37.3 degrees on the first day(s).

In that case you will receive a notification from Birth-Watch earlier in the event of a drop in temperature. After Birth-Watch has established an average temperature and will therefore also notify you of the "maximum negative or positive deviation", you can reset this temperature to 37.0 degrees if you wish.

It is therefore important to connect your mare to the Birth-Watch on time in order to obtain the most accurate measurements. We recommend that you try to start the measurements at least 3 days before the birth.

"Permitted Positive Temperature Deviation"

The "permitted positive temperature deviation" is set to +0.8 degrees by default and is calculated from the average temperature (per hour) of your mare. The first 24 hours there is no comparison possible, so it cannot yet indicate a value.

If the deviation is -0.4 degrees or more, the birth is normally imminent. In most cases, the decrease will gradually start a few hours before the birth. You can manually adjust this value from the moment you receive a notification so that you do not receive the notification again each time. However, it is important that you continue to observe the mare from that moment on and prepare yourself for the birth of the foal.

When the mare clearly shows signs of giving birth, it is important that you remove the entire harness and the transmitter from your mare.

From that moment on you can put the horse on "non-active" via the archive and Birth-Watch will no longer transmit measurements.

If the temperature of your mare rises above the average and exceeds the limit, you will receive a notification.

"Permitted Negative Temperature Deviation"

The "permitted negative temperature deviation" is set to -0.4 degrees by default and can also be adjusted by you. This deviation is calculated on the basis of the average temperature (per hour) of your mare. The first 24 hours there is no comparison possible, so it cannot yet indicate a value.

If the temperature of your mare rises above the average and exceeds the limit, you will receive a notification.

"Receive notification after 15 minutes of your device being offline"

This checkbox must be selected to receive a notification if the receiver has not received a reading from the transmitter for 15 minutes. We recommend that you turn this option on, so that you will be alerted in good time, for example, in the event of poor reception or a malfunction. Then click on "next" to go through step 2 of 3.

"Transmitter Code"

Here you enter the code engraved on your transmitter. Choose from the entered and available transmitters. You have already filled these in at "Transmitters". If no transmitter is available, for example if you have not saved the transmitter correctly or the transmitter is already linked to another horse, then you must go back to "transmitters" and correct this or go to "archive" and put the animal, which is linked to the relevant transmitter, on "non active".

After selecting the correct transmitter, select "next" to go through step 3 of 3.

It is important that each horse has at least one destination. You cannot add your horse without selecting a destination.

You can choose from the destination(s) already entered. Click on the desired destination(s) and then on "add animal".

A message will appear indicating that your animal has been correctly saved.

You can add several animals in this way.

Via "animals" you get an overview of all saved animals and the corresponding temperatures.

Select "⚙️" for the relevant animal in order to change your settings. You go through the 3 steps as described above in the same way.

If you click on "📊" you will get an overview of the measurements in table or graph form. The table shows the average temperatures per hour; clicking on a measurement shows all the underlying measurements for that hour.

The "🔋" sign indicates the battery level. A green symbol indicates a full battery, orange indicates a half-full battery and red indicates a low battery.

A few minutes after you have made the connection (see step 1) between the transmitter and the receiver, the first temperature measurements of your animal will be received. You can use Birth-watch for Horses.

If you receive a call from Birth-watch, you cannot take or answer this call. It is important that you store the following telephone numbers in your telephone so that you know that you are receiving a call or SMS from Birth-watch. After all, it is always the same telephone numbers that Birth-watch uses to report a call. Please note that you must save both numbers, as you can receive a call or SMS from both numbers.

Birth-Watch 0032 - 78 25 11 13

Birth-watch 0032 - 460 20 74 36

The call charges associated with each call/SMS will be deducted from your credit balance. The first €5 will be a gift. You can receive around 150 calls with this credit. You will receive a reminder e-mail when your credit is almost depleted. You can see the status of your credits via "platform > credit balance overview" and, if necessary, click on the web shop to increase them.

Archive

Via the archive you can switch your transmitter(s) on and off (active/non-active) Go to "archive", then select the animal in question and you have the following options:

-Place animal on non active / Place animal on active

Turns the measurements of this animal off or on again.

If the animal is activated, you choose (because the delivery is imminent or if you want to clean the transmitter for example) to stop the measurements. When it has been a temporary pause and the transmitter is placed back in the mare, you choose "place animal on active" to start the measurements again. The previous measurements will not be lost.

When you have chosen "place animal on non-active", switch off the transmitter, the animal will no longer be mentioned in "animals" and you will no longer receive notifications.

If you then choose to put the animal on active, the animal will be back in the "animal overview" and the measurements will be resumed.

"Delete"

If you choose the option "delete", all measurements linked to this animal will be deleted.

Attention, you will lose all data, this is irrevocable.

"Archive measurements"

If you want to view the measurements of an animal, choose "archive measurements".

You can find the measurements in a graph and in table form.

The table shows the average measurements per hour. If you click on a certain measurement, the underlying measurements of that hour will also be shown.

Step 4.

Attach the transmitter to your mare.

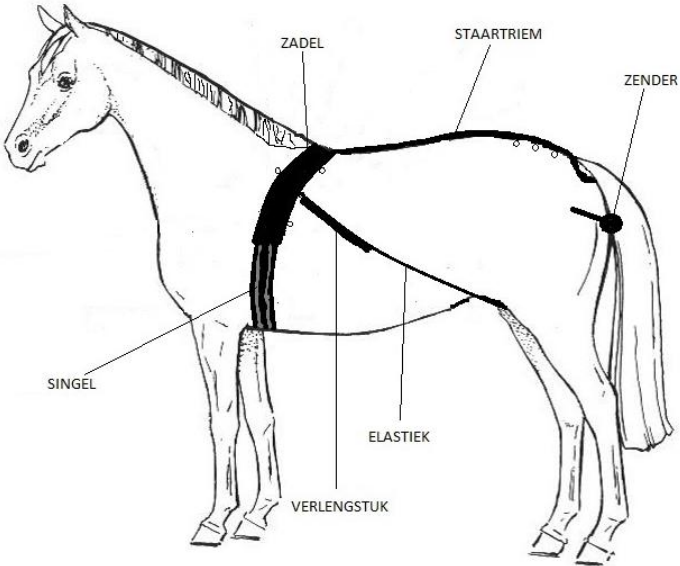
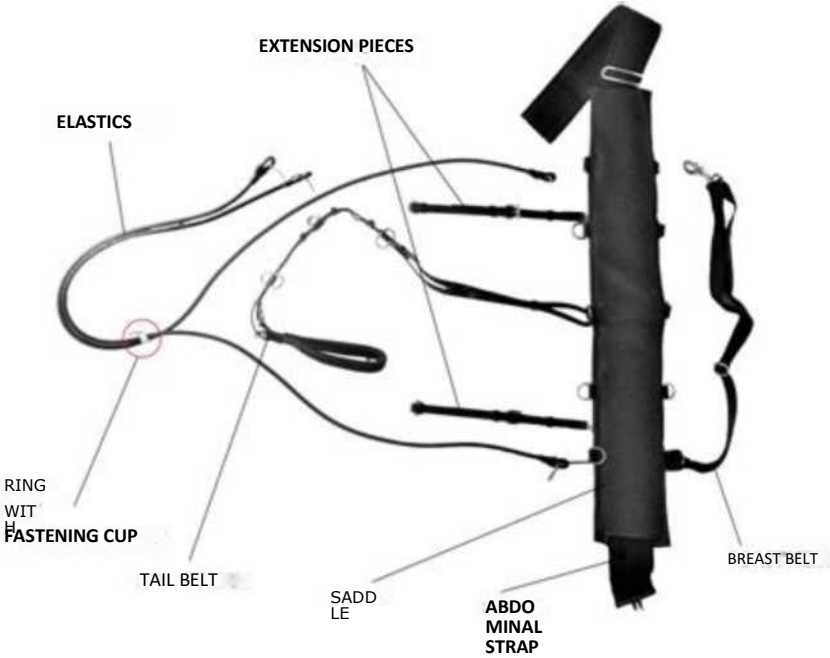
For this you have two options. The Birth-watch transmitter can be attached using the harness provided, or you can choose to have the transmitter attached in the vagina using a suture (by your veterinarian).

Choice option 1. Attaching by means of harness

The harness consists of the following parts:

- Abdominal strap
- Elastic breast strap (not applicable for ponies)
- Adjustable tail strap
- 2x extensions
- 2x elastic

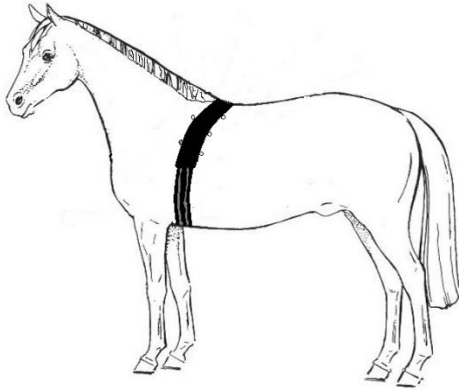
See images below:



Attachment:

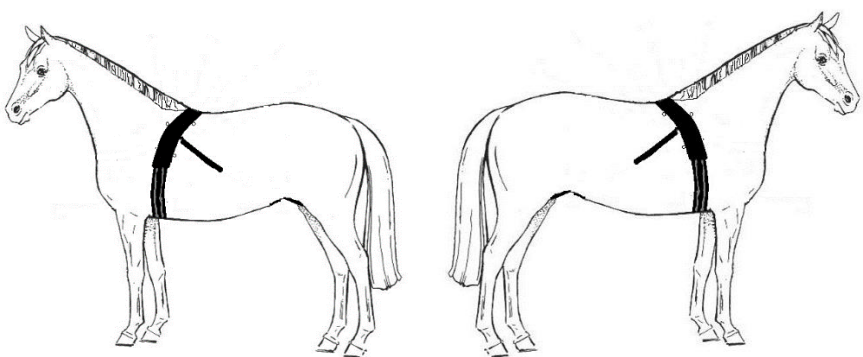
- Place the abdominal strap behind the withers of the mare and fasten it with the belts. If the abdominal strap is too short for your mare we can supply extensions, please contact your supplier.

See picture below:



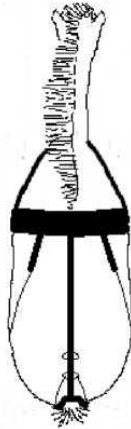
- Attach both left and right extension pieces to the back of the abdominal strap. One extension on the left, one on the right.

See picture below:



- Adjust the tail strap to the correct length. See picture below:

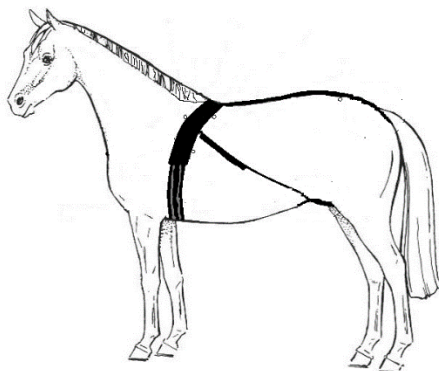
Let op: de sluitingen van de staartriem behoren aan de bovenzijde.



Bevestig één elastiek aan de linkerzijde aan de bevestigingsring op de

Bring the elastic, along the left side of the tail implant, between the hind legs to the left side of the udder to the extension on the left rear side of the abdominal strap. Then attach the second elastic on the right side to the attachment ring on the tail belt. Bring the elastic, along the right side of the tail implant, between the hind legs to the right side of the udder to the extension on the right rear side of the abdominal strap.

See picture below:



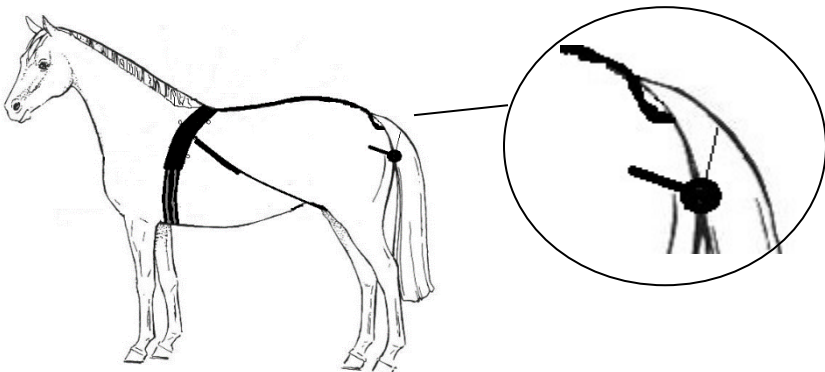
Adjust the extension to the correct length so that the elastics follow the mare's body exactly. You can also adjust the length by adjusting the elastics on one of the attachment rings on the extension.

The extensions are only necessary for larger horses. You can choose to remove the extensions and attach the elastics directly to one of the attachment rings on the back of the abdominal strap.

When sliding the fastening clip, hold the elastics firmly, close to the ring, in the opposite direction to the sliding.

- Slide the ring and the fastening clip, which is already slid over the elastics, until this ring is at the top of the vagina.
- After disinfection and possibly with some lubricant, carefully insert the probe of the transmitter into the vulva. Be careful not to feel any resistance when inserting the probe. The probe should be inserted carefully into the vulva at an angle of approximately 30/40 degrees up to the transmitter housing (round part on which the Birth-watch logo is printed).

See picture below:





Option 2, fixing with sutures

You do not need the harness. This operation should be performed by your veterinarian.

- After disinfection and possibly with some lubricant, carefully insert the probe of the transmitter into the vulva. Be careful not to feel any resistance when inserting the probe. The probe should be inserted carefully into the vulva at an angle of approximately 30/40 degrees up to the transmitter housing (round part on which the Birth-watch logo is printed).
- Attach the transmitter to the mare's vulva using two stitches.

You can now use the Birth-watch birth alarm.

We wish you good luck!

4. Use

The Birth-watch transmitter, the probe of which is inserted into the mare's vulva, automatically measures the mare's temperature every 5 minutes. These measurements are transmitted wirelessly to the Birth-watch receiver. The receiver is connected to the internet, enabling you to view the measurements from anywhere in the world via the app or possibly via the computer or laptop.

Birth-Watch automatically calculates the average temperature of the mare and after 24 hours also the difference from the average in the same period of one hour. It is therefore important to install Birth-Watch in good time in order to obtain a stable average. This is important in order to allow Birth-watch to work as effectively as possible.

In 99% of the cases, the temperature will drop by 0.4 to 1.0 degrees Celsius about one hour before labour starts (in most cases to 37 degrees Celsius or even lower). In a few cases, there may also be an increase in temperature before labour starts.

If the difference in temperature compared to the average is equal to or greater than the specified limit (maximum positive deviation / maximum negative deviation) Birth-watch will send a call to the telephone number set by you. You can set this in "destinations".

By default the limits will be set to -0.4 and +0.8 degrees Celsius.

In most cases the temperature drop will continue until the delivery is actually underway.

From the moment Birth-watch has notified you, you should personally observe the mare and remove Birth-watch from the mare.

The Birth-Watch harness is composed in such a way that it causes the horse little or no inconvenience, thanks to, among others, its elasticity and durable materials. We have also chosen to use elastic materials for safety. For example, if you have not removed Birth-Watch from your mare or have not done so in good time and the birth is in full swing. At that moment the transmitter will be pushed out of the vagina by the foal (in the event of a normal birth). Incidentally, you will also receive a message here, as the absolute temperature in that case will be lower than 37.0 degrees in almost all cases.

In this case, it is of course important to detach the transmitter and its harness as soon as possible so that the foal will not be disturbed further by the elastics, straps and/or transmitter.

5. Maintenance

If you remove the transmitter from the mare for cleaning, we recommend that you first put the horse on "non-active" via the "archive". You will then not receive any false alarms.

After the transmitter has been placed back correctly, you must of course set it to "active" again. The measurements will then be restarted automatically.

Cleaning

If Birth-Watch is used for some time in succession, it is important that you clean your mare, the transmitter and the harness at least twice a week.

In particular the elastics on the back of your mare and the transmitter can become somewhat soiled through urine and faeces. It is therefore important to monitor this closely, so that the Birth-Watch can be worn by your mare cleanly

If the delivery is delayed, it may be advisable to fit a saddle pad under the abdominal strap. Please contact your supplier for this as well.
and without hindrance.

We also recommend that you apply the harness to your mare in a dry place, so that if the mare is pregnant for a longer period of time, chafing marks are less likely to occur.

The whole harness and transmitter should be thoroughly disinfected after each use. The transmitter is in principle watertight, but we recommend you clean it with a wet brush and disinfectant.

The harness should be cleaned with lukewarm water and disinfectant.

Charging

The transmitter is equipped with a battery. It is best to recharge the battery before each use. A fully charged battery will power the transmitter for approximately 2 to 3 months.

You can follow the status of the battery in the app. You will find a battery image at the top right of the screen with a green, orange or red colour. Please note that this is an indication of the battery status.

You can charge the Birth-watch transmitter completely wirelessly using the charging station supplied.

You can connect the charging station to the mains using the supplied cable with adapter, in which case an indicator light will come on.

You should place the transmitter with the Birth-watch logo facing upwards; the other side of the transmitter should lie flat on the charging station. A light will light up on the charging station; this light will change colour as soon as the transmitter starts charging.

When the light is back to its original colour, the battery is fully charged.

If you do not need the transmitter for the time being, it is best to store it in a dry place. The transmitter will switch itself off when the battery reaches 50% status and has measured a temperature lower than 30 degrees Celsius for at least 24 consecutive hours.

You can reactivate the transmitter by recharging it to at least 50%. The transmitter will then automatically take measurements again. You can also activate the transmitter by, for example, placing it in the mare, thus registering measurements above 30 degrees Celsius. The transmitter will then automatically take measurements again.

We recommend that you fully charge the battery each time before using it.

6. Frequently Asked Questions

- *How can I save my horse's data?*

The data is automatically stored in the Birth-watch app. You can view these via the Birth-watch app under "archive".

- *How can I stop the measurements from the transmitter?*

By choosing the horse in question under "archive" and then selecting "place animal on non-active", the transmitter will no longer transmit measurements.

- *Can I receive measurements from several horses at the same time?*

Yes, that's possible. Several transmitters can be linked to your receiver at the same time. Each transmitter has a unique code so that they do not interfere with each other.

- *Can I use the transmitter on any horse or pony?*

No, it is not possible to use a transmitter of which the probe is ± 18 cm long on ponies smaller than 1.25 m.

For ponies smaller than 1.25 m, a transmitter with a short probe of ± 10 cm has been developed.

The transmitter with a short probe is also not suitable for ponies or horses bigger than 1.25 m, to get the right measurements you should use the transmitter with the probe of ± 18 cm.

- *I have no internet connection near my horse, how can I still install Birth-watch?*

If you do not have internet access, you need to connect the 4G SIM card to your receiver. The 4G SIM card is not supplied as standard, but is optional. You can contact Hafaro (Netherlands) or Luc Lierman (Belgium) for this.

- *The mare's temperature has suddenly dropped by 0.4 degrees Celsius or even more, but I am not expecting a foal. How is that possible?*

It is possible that the transmitter is not well inserted in the vulva, so check the transmitter and your harness attachments.

It is also possible that the horse has drunk a lot of (cold) water, causing its body temperature to drop rapidly for a few minutes. This will also rise back to normal within a few minutes. No action is required.

- *The transmitter is dirty because of the horse's faeces. Should or can I clean it?*

It is fine to clean and/or disinfect the transmitter a few times a week. You can remove the transmitter from the horse, clean/disinfect it and put it back without any problems.

In the meantime, put your transmitter on non-active to avoid false alarms due to the ambient temperature being too low and remember to put it back online afterwards.

- *I'm getting get a phone call but the last reading is within the set values and less than 15 minutes ago. How is that possible and what should I do now?*
- *I'm receiving the message "device KIM.... went offline". What do I do now?*

Birth-Watch has a built-in protection. When the mains or internet connection to which your receiver is connected is unstable or even broken, Birth-Watch will warn you.

A telephone call without the temperature giving rise to it can only be a consequence of an interrupted mains power or internet connection of your receiver.

In short, your receiver has been (temporarily) out of operation and can no longer receive measurements.

It is important that you check your internet and/or power connection of your receiver. However, in many cases, this is a very temporary failure of the internet network. If the receiver remains offline, check your internet. If you do have internet, but the receiver still remains offline, contact your Birth-Watch supplier. Once the recipient is back online, you will also be notified by SMS, provided you have also entered the SMS option under "destination":

, you will also receive a message via SMS: "Device KIM came online". After this notification has been received you will receive measurements again and you need do nothing more.

- I'm getting a message, the temperature readings are normal but the status bar below the readings says "Offline". How is that possible and what should I do?

Birth-Watch has a built-in protection. If the receiver has not received a reading for more than 15 minutes, a message will be displayed. It is sometimes possible that some measurements do not arrive, possibly due to the (too) large distance between the transmitter and receiver or due to an external disturbance. In the first instance you do not need to take any action and Birth-Watch will restart this itself. In the meantime please observe your mare closely, because until the next measurement comes in you have no control over it via Birth-Watch.

- How can I stop the transmitter when the horse gives birth, and how can I use the same transmitter for another horse afterwards?

You can stop transmitting by going to the "archive" and clicking on the animal in question. Here you can put the animal on non active. The transmitter will no longer give measurements and is now free to be used for another animal. To use the same transmitter for another animal, choose "animals > add animal" and go through the 3 steps.

7. Contact

If you have any questions about Birth-watch, please contact:

For the Netherlands:

Hafaro

Meester van Coothstraat 54 5398 CG Maren-Kessel 00316-34176309

info@hafaro.nl

For Belgium:

Luc Lierman Westkapellestraat 398 8300 Knokke-Heist 0032475-610836

luc@lierman.be

8. General

Birth-watch comes standard with a 1-year guarantee.

The use of Birth-watch *for Horses* is entirely at your own risk. Birth-watch is an aid to alert you to the imminent delivery of your mare; the responsibility remains of course with the owner or attendant at all times.

Hafaro and/or Lierman shall under no circumstances be held liable for any direct and/or indirect damage caused to or by the Birth-watch *for Horses* .