ⒺⓃ User guide

Thank you for purchasing a EquiAlarm. This is a dependable alarm system for foaling mares. We recommend that you read this manual carefully prior to use. It is essential that the alarm is fitted and operated properly to ensure that it works correctly.

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1. Introduction

Naturally, you want to be there when your mare is about to give birth, so that you can assist her or alert a vet if there are any complications. Horses and ponies have a tendency to lie down, stretched out on their left or right flank during the birthing process. This allows them more room during contractions. The EquiAlarm makes clever use of this phenomenon. By simply fitting the EquiAlarm beneath the halter of your mare (or into an anti-roll girth), it will alert you when the birth commences.

2. Package contents

1. **The EquiAlarm transmitter.**
2. **The special holder.** The EquiAlarm is slotted into this. This holder can be attached under your mare's halter, or into the ring on the anti-roll girth.
3. **Cable ties.** In order to help you get started, we have supplied a number of cable ties (also referred to as „tie wraps"). These cable ties are for once-only use, but can easily be obtained from any hardware store.
4. **The special screwdriver.** Firstly, this can be used to unscrew and open your EquiAlarm (for example when batteries need replacing or when you need to insert/remove the SIM card). The rear of this screwdriver, however, contains a strong magnet. You can use this to operate the EquiAlarm.
5. **Documentation.** You will find 2 documents enclosed with your EquiAlarm, specifically:
   a. Quick start guide (brief, concise manual)
   b. Troubleshooter (A checklist for use if you experience problems using the EquiAlarm)

3. Preparing for use

3.1 First time

The following steps must be performed when using the EquiAlarm for the first time:

- Unscrew the EquiAlarm and remove the red label from the pole of the battery. The batteries are now in contact with the EquiAlarm.
- You need to purchase and set up the SIM yourself. When you have done this, the SIM card must be activated and slotted into the SIM holder. (see 5.3)
- The section entitled "Installing a new SIM card" (see 6) explains how you can set up and install a newly purchased SIM card yourself.

Once you have performed these steps on your new EquiAlarm, you can reseal it with the screws and proceed with the set-up.

If your own mobile telephone has a good reception in the stable or pasture where your mare is located, we recommend that you purchase a SIM card from the same provider.

3.2 Switching on/off

The EquiAlarm can be switched on/off and operated using the rear end of the special screwdriver that has been included.

In order to switch the EquiAlarm ON, you must proceed as follows:
- Hold the rear end of the screwdriver against the ⏻ symbol on the side of the EquiAlarm.
- You will see the status indicator light up green. You can now remove the screwdriver.

- The EquiAlarm is now active and ready to be placed on your mare.

In order to switch the EquiAlarm OFF, you must proceed as follows:

- Hold the rear end of the screwdriver against the ⏻ symbol on the side of the EquiAlarm again.
- You will see the status indicator go red. You can now remove the screwdriver.
- The EquiAlarm is now off.

4. The EquiAlarm indicators

4.1 The status indicator

The status indicator is the outermost light on the side of the EquiAlarm. The status indicator is a special light that can light up in 3 different colours: blue, green and red. You can read the status of the EquiAlarm via the status indicator flash sequence. For example, if the light is flashing Green, the EquiAlarm is OK. On the contrary, when the status indicator is flashing red, the battery needs replacing.
The status indicator also displays further information when the EquiAlarm is making a call. If the light is flashing blue and red alternatingly, this means that the signal reception is poor. If the light alternates between yellow/blue or green/blue, then the reception is fair or good! You can read what the standard light patterns mean below.

LED light pattern			Meaning
🟢	🟢	🟢	Stand-by, Battery OK
🔴	🔴	🔴	Stand-by, Battery low
🔵🔵	🔵🔵	🔵🔵	GSM active, Establishing a connection
🔴🔵	🔴🔵	🔴🔵	GSM active, Network reception is poor
🟡🔵	🟡🔵	🟡🔵	GSM active, Network reception is fair
🟢🔵	🟢🔵	🟢🔵	GSM active, Network reception is good

Fig1. : Standard light patterns of the status indicator

4.2 The GSM indicator

Alongside the status indicator on the side of the EquiAlarm, you will also find a light with the inscription "GSM". This indicator only lights up amber. It is directly linked with the EquiAlarm's internal GSM and will only light up when the internal GSM is active.

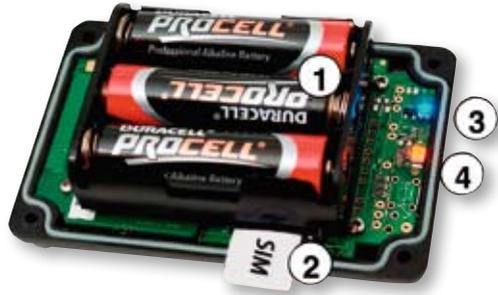There are, in a nutshell, 3 possible situations in the case of the GSM indicator:

• The GSM is seeking a network connection (light flashes rapidly)
• The GSM has a network connection (light flashes slowly)
• The GSM is currently making a call (light is continuously lit throughout the call)

The GSM Indicator is only for support. As a general rule, you will mostly use the status indicator.

5. The interior of the EquiAlarm

When you unscrew and open the EquiAlarm,
you will see the following major components:

1. Batteries
2. SIM card / SIM card holder
3. Status indicator
4. GSM indicator

5.1 Inserting/replacing the batteries

When replacing the batteries for your EquiAlarm, you must always use alkaline batteries (preferably "Duracell" or "Panasonic") Use of rechargeable batteries is not recommended. Always replace all 3 batteries simultaneously! A small screwdriver may be used to carefully remove the batteries, if you are unable to do this with your fingers. The batteries must be inserted so that the negative pole of the battery is placed on the spring.

> Always use new batteries at the start of the foaling season!

> When the EquiAlarm will not be used for a longer period of time, for example after the foaling season, you should remove the batteries to prevent leaking that will damage your EquiAlarm.

5.2 EquiAlarm housing
The housing of the EquiAlarm has been designed so that it can only be screwed shut in one way. This ensures that the status and GSM indicators are visible.

5.3 Inserting the SIM card
The SIM card must be slotted into the EquiAlarm with the chip facing downwards. Note also the diagonal side of the SIM card. This should be to the front when the SIM card is inserted.
Push the SIM card into the holder until you hear a click. You can then release the SIM card. The SIM card is now sitting in the holder and the EquiAlarm is ready for use. When you want to remove the SIM card from the holder, carefully push on the SIM card until you hear a click. If you now release the SIM card, the SIM card will come forward so that you can easily remove it.

6. Installing a new SIM card

Purchase a prepaid SIM card from your mobile specialist. You should preferably choose a provider that you know offers good coverage in the location where you want to use the EquiAlarm.

Once you have purchased a SIM card, you need to activate it. You do this as follows:

- Insert the newly purchased SIM card into your own handset.
- If your telephone asks for a PIN-code after being switched on, input the code. The PIN will be stated in the booklet or on the letter supplied with your SIM card. In most cases, the PIN is „0000".
- Now attempt to make a call using the telephone. You may hear some form of welcome message from your provider before the telephone connects the call, because this is the first time you are using the SIM. Listen to the message in full.
- You must now check whether the voicemail for the SIM card is switched off. You can do so by calling the number of the SIM card from another telephone. If, after a while, you are transferred to a voicemail service, this means that the voicemail for the SIM card is switched on. If this is the case, you must personally deactivate the voicemail service by calling the provider's customer services department, or by inputting a certain deactivation code. The procedure for deactivating the voicemail service differs for each provider and will be stated in the instructions for your SIM card.
- If you are asked to input a PIN code when you switch on the handset, this PIN security feature must be switched off. Consult the manual for your handset for instructions on how to do this.
- Check how much credit is on the SIM card. You can do this by calling the credit/top-up service line for your provider. Make sure there is at least € 10 on the card. If the amount of credit is insufficient, you must purchase a top-up card (from a post office or supermarket).

When you have performed all of these steps, the new SIM card will be ready for installation and use in the Equi-Alarm. (see 5.3)

7. Programming telephone numbers

In order to change the settings of your EquiAlarm, you must put the device into programming mode.

7.1 Programming mode
In order to programme the EquiAlarm directly, you must proceed as follows:

- Hold the rear end of the screwdriver to the ⏻ symbol on the side of the box for several seconds
- Whilst you are doing this, the status indicator will first flash green 3 times, then blue.
- When the status indicator turns blue, you can remove the screwdriver.
- The EquiAlarm is now in programming mode.

When you are finished with programming wait 2-3 minutes, the EquiAlarm will automatically exit the programming mode and return to normal mode. The EquiAlarm is now on and ready for use.

7.2 Programming telephone numbers

• Activate the EquiAlarm's "Programming mode" (see 7.1). Wait until the Status indicator is flashing 1 x blue,
  1 x green alternatingly.
• Now call the EquiAlarm with your (preferably mobile) telephone.
• The EquiAlarm will now receive your call and programme your telephone number in the memory.
• The EquiAlarm will now call you back to confirm the number. Allow your telephone ring out (i.e. do not answer
  and do not divert).

> You are now in fact finished with programming. The EquiAlarm now knows your number
> and will call you when the birth is occurring. Now wait 2-3 minutes. The EquiAlarm will
> automatically exit programming mode. The EquiAlarm is now ready for use.

Should you wish to pre-programme a second number, please follow the steps below.

• Wait until the EquiAlarm is flashing 1 x blue, 2x green.
• Now call the EquiAlarm with the 2nd telephone you wish to be called on (this may also be a landline telephone).
• The EquiAlarm will also receive this call and will programme your telephone number in the memory.
• The EquiAlarm will also call you on this telephone to confirm the number. Allow your telephone to ring out and do
  not respond.

Fig2: status indicator light patterns during programming

LED light pattern			Meaning
●●	●●	●●	The EquiAlarm is ready for the first call
●●●	●●●	●●●	The EquiAlarm is ready for the second call

> You can determine which number you are programming by the number of green flashes on
> the EquiAlarm. For instance 1x blue and 2x green means that you are programming the
> second telephone number.

7.2.1 Programming by SMS

You can also programme the EquiAlarm by sending an SMS. In order to do this, you should proceed as follows:

• On your own mobile telephone, compose a SMS with the following text: **"M1:"** (Note! use a capital letter **M**) immediately followed by the desired first number. The table below shows an example of a how to compose the SMS in your country.

Country	Country code	Example mobile number:	Example of the SMS to be composed: (Note! Use a capital "M" and type everything without spaces)
Niederlande (NL)	+31	0 6 12345678	M1:+31612345678
Belgien (BE)	+32	0 491 123456	M1:+32491123456
Frankreich (FR)	+33	0 6 12345678	M1:+33612345678
Schweiz (CH)	+41	0 176 12345678	M1:+4117612345678
Österreich (AT)	+43	0 664 1234567	M1:+436641234567
England (UK)	+44	0 7788 123456	M1:+447788123456
Schweden (SE)	+46	0 707 123456	M1:+46707123456
Deutschland (DE)	+49	0 171 1234567	M1:+491711234567

As shown in the table, the number should be programmed using the country in place of the first "0" that would normally be input when dialling a mobile number.

• Activate the EquiAlarm's "Programming mode" (see 7.1). Wait until the Status indicator is flashing 1 x blue, 1 x green alternatingly.
• Now send the SMS you have just composed to the mobile number for the EquiAlarm.
• You will shortly receive a reply SMS from the EquiAlarm in confirmation. This will show the number you have programmed, preceded by M1:

You can of course also programme M2 in the same way. You can easily programme both numbers at the same time in a single SMS. Simply start a new line for each number in your SMS message.

We strongly recommend that you programme a mobile number as the first number (M1). If you do this, the EquiAlarm can send you SMS messages and receive SMS messages from you.

You can also programme the numbers via SMS when testing the EquiAlarm (see 8). When the GSM indicator on the EquiAlarm is flashing steadily, you can send an SMS with telephone number(s) or new settings and the EquiAlarm can process these.

7.2.2 Direct programming

There is always the option of programming the EquiAlarm by temporarily inserting the EquiAlarm's SIM card into your or another person's mobile telephone and saving the numbers on the SIM card via the telephone in question. However, this is usually the most complex method. In order to programme the SIM card directly, you should proceed as follows:

• Take the SIM card out of the EquiAlarm's SIM card holder. (see 5.3)
• Now insert the SIM card into a different mobile telephone.
• Turn on the mobile telephone.
• Now programme the names M1 and M2 into memory slots 11 and 12 on the SIM card. You will find the procedure for doing this in the manual for the mobile telephone. Take care to ensure that you do not programme the numbers into the main memory of the telephone.
• Program both numbers on the SIM card. If you do not want one of the memory slots to be called, save the following as the telephone number: "+1111".

8. Testing

Before you start using the EquiAlarm, it is essential that you first test it to ensure that it is operating correctly. You can easily test the alarm yourself.
• Preferably visit the location where your mare is located with the EquiAlarm.
• Take the EquiAlarm in your hands and switch it on, so that the status indicator flashes green once every 8 seconds.
• Now turn the EquiAlarm 90 degrees, so that the status indicator is facing upwards.
• The status indicator will now flash more rapidly and will turn orange.
• After a few seconds, the status indicator will turn blue and the GSM LED will light up also.
• The EquiAlarm will now shortly begin dialling the number programmed under "M1".
• Do not answer this call and, similarly, do not reject it by pushing the red button. Simply allow the telephone to ring out.
• The EquiAlarm will cease calling automatically after a few seconds.
• You can now stop the EquiAlarm by simply calling it. The EquiAlarm will answer your call and you will hear 3 tones as confirmation that you have deactivated the EquiAlarm. The EquiAlarm will then dial no further numbers until it is once again turned 90° after a few minutes.

If the test proved successful, you can now install the EquiAlarm on your mare.
If you encounter any problems, please use the enclosed "Troubleshooter".

> You can programme the mobile phone number of the EquiAlarm in your phone, using a name like "Mare" or "Birth". You will now be able to see on the display when the EquiAlarm calls.

> When you the EquiAlarm calls you (whether it is a birth alarm or a programming call), never answer the call. When you answer it is basically a conversation and you will be charged so. Never decline (push the red button) a call either, because the call may be diverted to your voicemail.

9. Fitting on the mare

In order to be able to use the EquiAlarm in a girth or under the halter, it must be secured in the supplied holder. You can do this as follows:

• Slide the EquiAlarm into the holder carefully, as shown in the photo below.
• Make sure that both indicators are visible on the side.
• Next, close the flap using the clip provided.

9.1 Fitting under the halter

If you wish to use the EquiAlarm under a halter, it should be fitted as shown below, using 3 cable ties.

10. Summary and method of use

Below is a brief description of how the EquiAlarm works and how it should be used. We advise you to read this text.

The EquiAlarm checks the position of your mare once every 8 seconds. During the intervals, the EquiAlarm will switch to an energy-efficient mode, so that your battery is not being used. When your mare starts having contractions and lays down outstretched as a result, the EquiAlarm will call your mobile telephone. The telephone number of the EquiAlarm will then be displayed on the screen of your mobile telephone. If you store this number in the contact list of your mobile telephone with a name such as „EquiAlarm" or „Mare", this name will also be displayed on the screen of your telephone. You will now know that the EquiAlarm is calling you. In contrast to what you would normally do, do not answer the phone in this instance! This will ensure that you do not start a „conversation" and the report to you will be entirely free of charge. After a few seconds, the EquiAlarm will stop calling automatically. You can then call back the EquiAlarm (this is also free of charge). This will let the EquiAlarm know that you have heard its call and the device will stop dialling. The EquiAlarm will only reactivate if the horse lies down again.

If you do not call back the EquiAlarm within approximately one minute, the EquiAlarm will call the second number in its memory (if a second number has been programmed) and will then once again wait approximately one minute for confirmation. If the EquiAlarm has called both numbers once without either number having responded, the EquiAlarm will redial the first number and then redial the 2nd number. The EquiAlarm will then cease calling automatically.

It should be noted that calling a landline connection (your home telephone) presents no problem for the EquiAlarm. If your landline telephone is equipped with number recognition, you can see in advance whether it is the EquiAlarm calling you. If your landline telephone does not have number recognition, you are forced to answer every call. In such instances, you will hear a bleep that enables you to identify the EquiAlarm. In this instance, however, you do establish a call connection with the EquiAlarm and a small amount of credit will be deducted from the prepaid card of the EquiAlarm. We recommend that you check the credit regularly should you wish to use the EquiAlarm in this way. Make sure that this remains above € 10 at all times.

The system can generally operate for at least one month on a set of alkaline batteries. We strongly advise against the use of rechargeable or cheaper zinc-carbon batteries.

11. Technical information

Supply voltage	4.5V (3xAA Alkaline)
Power consumption	130uA average (1,3A peak)
GSM Module	Dual band GSM-900/1800 MHZ
Memory slots	2
Sleep mode	No
Detection angle	Adjustable 65-80°
Notification types	Phone calls / SMS

Guarantee Card

Based on our General Terms and Conditions we provide a 2-YEAR GUARANTEE for this product for the resolution of damage caused by defective materials or manufacturing defects. The guarantee term is valid from the date of purchase.

The guarantee does not cover:

1. Damage caused by natural wear and tear (wearing parts, sliding parts), overloading or incorrect operation.
2. Damaged caused by an Act of God or during transportation.
3. Damage to rubber parts, e.g. on connection wires. Guarantee repairs are only carried out at the manufacturing works or an authorised repair shop! The manufacturer reserves the right to refuse any guarantee claim in cases of non-compliance.

For this purpose the equipment must be returned to the point of sale in one piece, packaged and postage paid with the original invoice and the guarantee card. Please give details of the nature of your complaint. The owner of the equipment will carry costs that arise from unjustified complaints.