USER MANUAL

V09

SURE FOAL⁺

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Foalalarms.co.nz

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INTRODUCTION

- The **Sure** **Foal** is a SMS/Text based system.
- When an Alarm condition is triggered by the Mare lying down longer than the trigger time, a SMS is sent to the user to report the Alarm.
- All commands and Setup are via SMS and defined in this manual
- All Responses are by SMS or indicated by the built in indicator LED's.

OPERATION

An indication of a Mare possibly going into Labour is detected by the mare lying down and the orientation of the **Sure** **Foal** being tilted for 10 seconds or more.

Note the correct normal orientation of the **Sure** **Foal** is with the label up, including when fitted on the mare.

Before use it is advised to test the **Sure** **Foal** by tilting to either side by at least approx 45º. A detected tilt from normal is indicated by a blue LED and after 10 seconds or more a txt/SMS will be sent to the authorised user

☞ **An authorized user must be setup first**

or no txt will be sent. See SETUP

SETUP

SIM Card

Your **Sure Foal** needs a working SIM card, and with a positive balance.

This is inserted to the slot in the side of the **Sure Foal**.
The **Sure Foal** must be turned off before insertion
Please note the correct orientation for insertion. Insert until it latches. To remove the SIM, push in, it will de-latch and pop out.

Startup

Turn the **Sure Foal** on by the small slide switch on the front Panel
The LED indicator will flash blue during Startup.
When successfully connected to a Cell Network the indicator will change to a green flash. If you fail to get a green flash within 2 minutes the **Sure Foal** is not operating correctly. Check the SIM Card or turn off and try again.

Add an Authorized User

All commands will only be accepted by one, or optional a second authorized cell number.
To add a cell number to the Sure Foal Alarm you must send a SMS with the correct pin number and the command to add your cell

☞ **This command <u>MUST</u> be used before any others for the users cell number to be recognized, or all commands will be ignored and no Alarms will be sent. This is the minimum setup.**

For example if the pin is 1234 (Default is 1234), and you want to add a cell to position 1 then;

Send:	1234+1
Response:	Cell 1 added

Note: This command has changed from Firmware version 4.07R onwards

At least one Authorized cell number must be setup, in position 1. A optional second cell can be added to position 2

Change Pin Number

For example the pin is 1234 and you want to change to 5555

Send:	1234>5555
Response:	Pin changed: 5555

☞ **It is recommended you change the PIN number from the default as soon as you can to avoid hijacking.**

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Set Mare Name

You can define your own Mare name that is reported to an Authorised User when an alarm is trigged. This is useful if you have more than one Foal Alarm. (10 Characters Max)

To set the Mare name:

Send:	Name>New Name
Response:	Horse Name is: <New Name>
Default:	My Mare

Note: The Mare name can be a maximum of 10 characters.

Query Mare Name

To query the current Mare name:

Send:	Name?
Response:	Horse Name is: <name>
Default:	My Mare

Prepay Balance

You can get your *Sure* **Foal** to check your prepay balance with the network provider where checking of balance is supported by the network provider. The **Sure *Foal*** will then relay back the balance to the Authorized Cell Number.

Send:	Bal
Response:	Your balance is…..

Set Prepay Balance Enquiry Number

In order for the prepay balance request to work you need to set the **Sure** **Foal** to text 'bal' to the correct number

Note: This command has changed from Firmware version 4.07R onwards

For example for 2 Degress (NZ) the number is 233

Example:

Send:	Baln=233
Response:	Balance No = 233

Query Prepay Balance Enquiry Number

Send:	Baln?
Response:	Balance No = 233

Numbers that we know of. Others may exist

2Degress (NZ)	233
Spark (NZ)	333
Vodafone (NZ)	777
Skinny (NZ)	2424
Optus Australia	9999
Vodafone Australia	1511

Query the Firmware version

Send:	Ver?
Response:	Version: 7.04R

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Battery Status

When the battery is low (<30%) this will be reported to authorized user 1 only, via SMS.

The Authorized users can also query the battery charge via SMS at any time when turned on.

Send:	Batt?
Response:	Batt = xx %

Recharging the Battery

Ensure the **Sure Foal** is turned on. Failure to do so will appear that charging is happening, but it is not

Connect the USB charging cable to the **Sure Foal**.
A 500mA or greater charger is recommended.

When charged a SMS message will be sent to the authorized user prompting that charging has finished and to disconnect the USB charger. The Status LED will also indicate charging has stopped.

Depending on your charger this may take 5 hours or more from flat

Shutting down remotely

If you need to remotely shutdown the Sure Foal, say due to a flood of false alarms if your mare lies down, you can tell it to shutdown.

Send:	SHUTD
Response:	No response

WARNING:
- The alarm will have to be turned off and back on to work again.
- It will still be on and draining the battery, but in a deep sleep.

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Status Indications

The *Sure* **Foal** is fitted with a LED that indicates various states

State	Color
Startup	3 Green flashes then BLUE
Ready: Network found	1 quick per second GREEN
Tilt Detected	While tilted BLUE
Sending SMS	1 quick BLUE
Charging	2 per second GREEN
Sleep/Standby	1 quick every 9 seconds GREEN
Deep Sleep (Battery dead) Please turn off	1 quick every 9 seconds BLUE

Error	Color
At startup: SIM Error. Not activated or inserted incorectly	Flashing Green and Blue
When Sure Foal sending a text: SIM, network error or insufficient balance	Flashing Green and Blue

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Fitting to the Mare

It is assumed for the following steps that;
- A working SIM card is fitted
- The SIM/account has a positive balance
- An authorized user has been added. See **SETUP**
- The *Sure* **Foal** Battery is fully charged
- The *Sure* **Foal** has the top/label side facing up

1) Turn on the *Sure* **Foal:**
- A slow flashing Blue light indicates the *Sure* **Foal** is starting.
- When the green light flashes the **Sure *Foal*** has successfully started.

2) Test operation:
- Turn the *Sure* **Foal** sideways, both ways by at least 45º to test tilt detection is working.
- A blue LED will indicate tilt detection.

3) If you tilt for more than 10 seconds the *Sure* **Foal** will send a SMS to the Authorized User.

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☞ For each of the following steps ensure the **Sure** Foal is the right way up, label up.

4) Fit the **Sure Foal** inside the provided waterproof case with the label up.

5) Ensure the waterproof case is sealed properly (4 latches). Ensure the case yellow tag is on top

6) Fit inside the black PVC pouch.
- Case yellow tag up.
- Pouch flap up.

The **Sure** Foal should always end up on the mare label up. Wrong way up will give a continuous stream of false alarms

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7) Close and secure the flap.

8) Fit to the halter

9) Add the reinforcing strap to ensure the pouch is not pulled off by the mare. Pull snug before latching the Velcro.

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