



PEGASUS
EQUINE MONITORING SYSTEM



User's Manual



Horse Sense Shoes, LLC
Now Your Horse Can Speak To You

Federal Communications Commission (FCC) and Industry Canada Statements

FCC Statements

Per FCC 15.19(a)(3) and (a)(4) This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user should not modify or change this device without written approval from Horse Sense Shoes LLC. Modification could void authority to use this equipment.

Industry Canada Statements

Per RSS-Gen, Section 7.1.3 This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Per RSS-GEN, Sec 7.1.2 Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

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Notes and Warnings



Note Icon indicates important reference information.



Warning Icon indicates the potential for property damage, injury or death.

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INTRODUCTION

The Pegasus™ Equine Monitoring System allows for both real-time and continuous monitoring of a horse's temperature and postural behavior (orientation). Simply attach the microsensor to a horse's tail and owners, veterinarians, and trainers have 27/7/365 access to critical horse vital and postural behavior/activity data. If the Pegasus System detects abnormal vitals and/or behavior, an alert is sent to key team members via smartphone, tablet and computer. This system can assist with early detection of fever, colic, laminitis and even helps provide real-time foal monitoring.

Pegasus™ Microsensor technology for real-time biometrics saves time and labor by eliminating the need for manual equine temperature readings. Data gathered by the Pegasus™ Equine Monitoring System can be accessed virtually anywhere at anytime from your Pegasus™ Cloud Dashboard.

Key Features:

- 27/7/365 Temperature and Orientation Monitoring
- Text Message Alerts for Abnormal Readings (Veterinarian, Owner, Trainer, etc.)
- Customizable Time-Based Reports (eg. daily, weekly, monthly)
- Simultaneously Monitor Multiple Horses
- Even Monitors During Transport

Equipment Checklist

The following items are included with your Pegasus™ Equine Monitoring System:

1. Pegasus Microsensor
2. Adjustable Strap
3. Pegasus Relay Device (with micro USB power supply cord)
4. User's Manual

Technical Assistance and Reordering Information

For technical assistance and reordering, please call Agri-Pro Enterprises at **(800) 648-4696**. Technical assistance can also be directed via email to **techhelp@horsesenseshoes.com**.

PEGASUS™ CLOUD DASHBOARD INTRODUCTION



Pegasus™ Cloud Dashboard

The dashboard allows users (veterinarians, horse owner, trainer, etc.) to view real-time and continuous temperature and orientation dash on one or multiple horses using a smartphone, computer or device. The dashboard allows users to compile time-sensitive reports (day, month, year, etc.) using the Pegasus™ temperature and/or orientation data.

The dashboard will be described in more detail in a later chapter of this manual.



Note

Upon your purchase of the Pegasus Equine Monitoring System, you should have received a username and password from your Authorized Pegasus Sales Representative. If you need help setting up this information, please send an email to:

techhelp@horseshoesense.com

KIT HARDWARE

The Pegasus™ Equine Monitoring System Kit includes the following hardware:



Pegasus™ Microsensor

The microsensor measures real-time and continuous temperature and orientation data. It attaches to a horse's tail with an adjustable strap. The microsensor sends temperature and orientation data to the Pegasus Relay Device. The microsensor is water-resistant and can be cleaned using mild soaps and a damp cloth. Do not submerge the microsensor into liquid.



Adjustable Strap

The strap used to attach the microsensor to the horse's tail.

Pegasus™ Relay Device

The Pegasus Relay Device sends data from the microsensor to the Pegasus™ Cloud Dashboard.



Micro USB Power Cord

Attaches to the Pegasus™ Relay Device and power outlet.



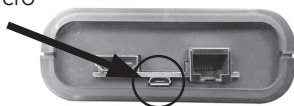
Note

The relay box and microsensor have been designed to operate in environments ranging from -4 Deg. F (-20 C) to 158 Deg. F (+70C).

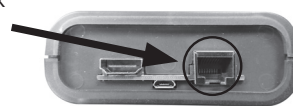
DIRECTIONS FOR USE

The Pegasus™ Equine Monitoring System includes the Pegasus™ Microsensor, which transmits temperature and orientation data to the Pegasus™ Relay Device, which, in turn, transmits this data to the Pegasus™ Cloud Dashboard.

Relay box micro
USB port.



Relay box
ethernet
port.



Note

Upon your purchase of the Pegasus™ Equine Monitoring System, you will be provided a username, password and login URL for the Pegasus™ Cloud Dashboard. Store this information in a safe and secure location. For problems logging into your dashboard account, please send an email to techhelp@horseshoesense.com, provide your phone number and name and a representative will get back to you within 3 hours.



Warning

Before Setting Up the Pegasus™ Relay Box, ensure easy access to an AC power supply with adequate ventilation. Do not stack items on top of the relay box as this may result in damage to the box components. A computer can also act as a power supply via the relay box micro port and the computer's USB port.



Note

If your environment has a wireless connection, you will only need to plug the relay box into a power source and you are ready to go. If you require broadband via a landline to connect to the internet, plug one end of a broadband cable into your broadband outlet and the other end into the ethernet port on your relay box.

1. Connect the micro USB power cord

Connect the AC adapter to the relay box via it's micro USB port and then plug it into an electrical outlet or surge protector.



Warning

The Micro USB power cord is design to work with most electrical outlets in the world but power supply connectors and power strips can vary from country to country. Using an incompatible cable or improperly connecting the cable to a power strip may cause fire and may damage the relay box.



Note


A computer can also act as a power supply for the relay box. This requires a micro USB / USB cable (sold separately at retail outlets).

2. Placing the Pegasus™ Relay Device

After the relay box has been plugged into an electrical outlet or surge protector, ensure that the power cord will not be tripped over or stumbled on as this may cause injury and may damage the relay box. Placing the relay device in a central area of the barn, stable or vet clinic (up in the rafters is a recommended location for signal reception).

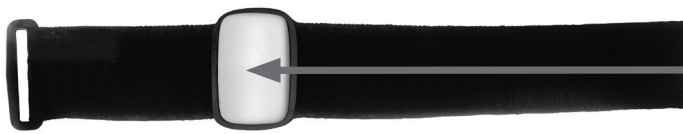
DIRECTIONS FOR USE cont.

3. Turn on the Pegasus™ Microsensor

Press and hold the power  button on the microsensor for 3 seconds. To ensure that your microsensor and relay device are "paired" and properly functioning, log into your Pegasus™ Dashboard Account. You should see unique ID of the microsensor on the dashboard. The microsensor will flash 12 times with a green LED indicating that it has paired with the relay box. When first turning on the power be within approximately 20 feet of the relay box.

Note

The microsensor collects temperature data, which is sent to the cloud dashboard via the relay box. If a microsensor is out of range of a relay box, the temperature data is saved and uploaded once it comes in range of a relay box. Additionally, once a Pegasus™ Microsensor has been paired with one Pegasus™ Relay Device, it will transmit data when it comes in range of any Pegasus™ Relay Device.



Microsensor inserted into adjustable strap with **label side in**.

4. Attach the Pegasus™ Microsensor to the horse's tail.

Place the Pegasus Microsensor into the adjustable Velcro® strap with the **label side in**. Wrap a small handful of tail hair into the strap to help hold it in place. The microsensor should be secured as close to the anus as possible. **It is required that the sensor be in contact with the bare skin to ensure good thermal conductivity.** As you tighten the strap weave some tail hair into the Velcro®. Do not over tighten strap. Check the strap tension after approximately one hour to ensure that the blood flow has not been reduced or cut off to the tail.

Warning

Applying a strap, bandaging or wrapping material to a horse's tail that will be left on for a period of time should be regularly monitored to ensure that it does not become too tight or bunch up and cause constriction. Reducing blood flow to a horse's tail may result in severe damage to the tail.

Note

Attaching the microsensor can be accomplished using alternative methods such as using 3M™ Vet Wrap to attach the microsensor (often done with foaling mares).

Note

Align microsensor such that it is on the underside of the tail and centered. Remember label side of the microsensor should be facing in and it should be in contact with bare skin.



Note

Within 24 hours of microsensor activation, it is recommended to take your horse's temperature manually and that this manual reading is recorded in the "Record Temperatures" section on the dashboard. Manual readings help fine-tune the temperature algorithm. A manual reading should be taken every 6 months, or with a known febrile horse, and recorded on the cloud dashboard. Any large deviations between a manual and microsensor readings should be sent to: techhelp@horseshoesense.com

Note

The microsensor contains a lithium-ion battery with an average use life of 3 years. When the battery dies, the microsensor can be discarded at most waste collection sites.

DIRECTIONS FOR USE (PEGASUS™ CLOUD DASHBOARD)

To access the Pegasus Cloud Dashboard:

a. Go to the following URL:

Enter your username and password.



Note

For login issues, send an email to:

techhelp@horsesenseshoes.com

Please include your name, your phone number and your veterinarian and any specific problems you are having.

Note

If you monitor multiple horses, each horse needs a microsensor but you will need only one relay box. The default view on the cloud dashboard is to show multiple horses. If you want to look at the data for a specific horse, you can either click on that horse from the readings page or run reports specifically for the horse in question.

HSS Tag Registration for ABC Equine (1006)

Leave Animal ID Blank to De-register a Tag.

	TagID	Animal ID	Stall ID
1	001	Horse 1	
2			
3			
4			
5			
6			
7			
8			
9			
10			

Submit Query

HSS Record Viewer 2015-12-13 23:44:08

Most Recent Tag Records for ABC Equine

Animal	Temperature	Last Reading	Orientation
horse1	97.12 F	2015-07-21 14:58:22	209325
horse6	77.79 F	2015-05-05 10:27:11	0
horse7	99.04 F	2015-06-03 12:29:24	0
horse11	103.21 F	2015-04-17 20:26:03	0
horse12	99.71 F	2015-06-13 18:09:50	263881

Note

The default settings for sending text alerts for temperature are set at 104 Deg F (40 C) and is 80 Deg F (26 C). (If you receive a text alert for low settings, this typically indicated a malfunction or that the sensor is not longer in contact with the horse's skin). These upper and lower settings can be modified by the user using the settings function on the cloud dashboard.

Note

To generate weekly, monthly, annually (etc.) reports on a specific horse, or multiple horses, navigate to the "Reports" Section and enter the desired functions and click "Generate Report". Reports are in .csv format, which can be viewed using MicroSoft Excel, KSpread, OpenOffice Calc or similar spreadsheet applications.



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