

## USER GUIDE

# Artificial Insemination: The Optimum Time

**Allflex**<sup>®</sup>

Livestock Intelligence

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**SenseHub**<sup>™</sup>

Dairy

# What to do when you receive a 'heat' alarm notification?



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Open the 'animals in heat' report and check:

1

## HEAT INDEX

This index represents the probability that the animal is in heat. The greater the value, the more likely that the animal is in heat. **Remember: the animal is added to the report when its index exceeds the configured 'heat' threshold (default value 50).** This index is an aggregate of a number of different parameters, such as:

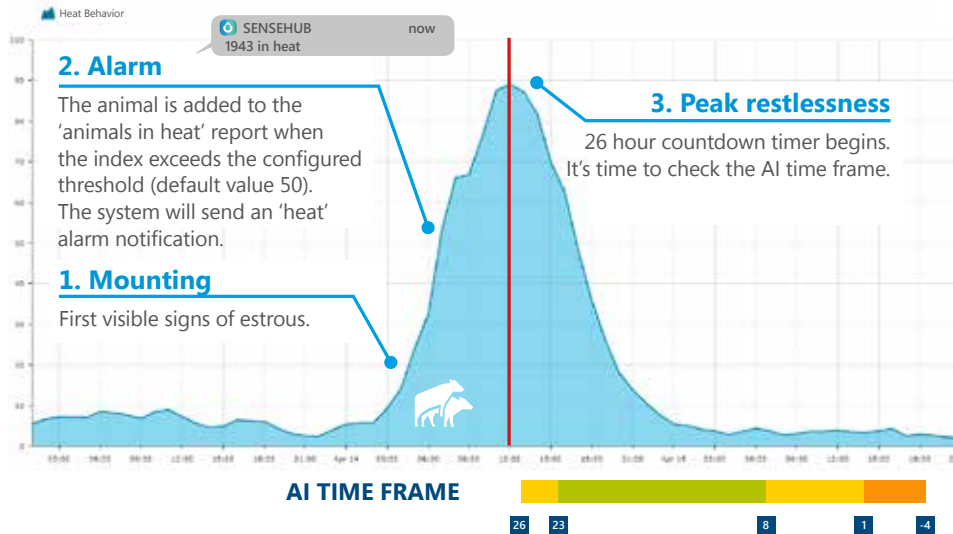
- Peak restlessness;
- Drop in rumination;
- Number of days since last estrous state: the more regular the cycles, the higher the index.

2

## LACTATION STATE

The 'heat' report may also include cows/heifers diagnosed to be pregnant and cows in dry state or in the voluntary waiting period. The report therefore includes a filter function so that only animals ready for insemination are shown.

# The right time to inseminate



## Check the AI time frame

The **AI time frame** is a crucial tool for managing insemination as it **indicates the optimum time to inseminate**. When peak restlessness is detected, a countdown timer starts which ends after 26 hours, indicating when ovulation starts.

# The right time to inseminate



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## Understanding the AI time frame

### 26 TO 23 HOURS: EARLY AI

Insemination performed during this period of time may result in lower conception rates.

### 23 TO 8 HOURS: OPTIMUM TIME FOR AI

This is the optimum time frame for insemination. Insemination performed during this period of time should produce the highest possible conception rates.

### 8 TO 1 HOURS: LATE AI

Insemination performed during this period of time may result in lower conception rates.

### 1 TO -4 HOURS

Insemination performed during this period of time will result in the lowest conception rates.

### **THE OPTIMUM TIME FOR ARTIFICIAL INSEMINATION IS BETWEEN 23 AND 8 HOURS.**

It has been demonstrated that conception rate increases by 20% during this period of time. If necessary, animals may be inseminated at any point during the time frame for insemination, but with lower conception rates.

### **THE OPTIMUM TIME FOR ARTIFICIAL INSEMINATION WITH SEXED SORTED SEMEN IS BETWEEN 16 AND 0 HOURS.**

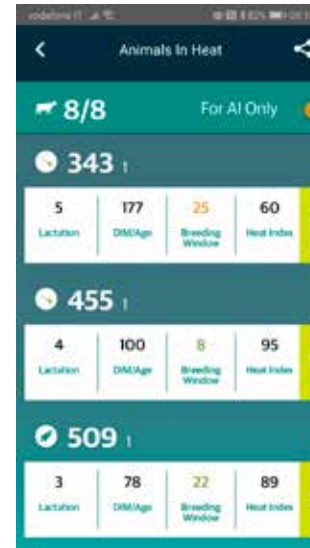
# The AI Timeframe

## Web App version



To decide when to inseminate using the Web App, check the position of the black indicator corresponding to the number of hours remaining until ovulation starts. If the indicator is in the green zone (between 23 and 8 hours), you are in the optimum time frame for insemination.

## Mobile App version



To decide when to inseminate using the Mobile App, check the number shown in the AI window. If the number is between 23 and 8, you are in the optimum time frame for insemination.



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