

# CWS4 model overview

ID. 20221101 CWS4 MODEL OVERVIEW\_V2.0.DOCX  
Rev. 2.0  
Status **Final**  
Effective 3-11-2022



## 1 Revision history

Rev.#	Description of change	Name	Date
1.0	Initial version	J. van Husen	1-11-2022
2.0	Update table Marketinginfo		

## 2 Definitions

Term	Description
CWS	Cow Wellness Sensor
CWS4-S8	Cow Wellness sensor 4, model S8
CWS4-S9	Cow Wellness sensor 4, model S9
PCBA	Printed Circuit Board Assembly, version 4.1

## 3 Purpose & Scope

This document contains information regarding the Cow Wellness Sensor model CWS4-S8 and CWS4-S9. The purpose is to supply background information to persons involved in the certification process of these products.

## 4 Introduction

The CWS is part of the CowManager system and is meant to be installed in a bovine's ear to collect information about the ear temperature, activity, rumination and eating behavior of a cow. The device transmits the collected data via wireless communication to the system.

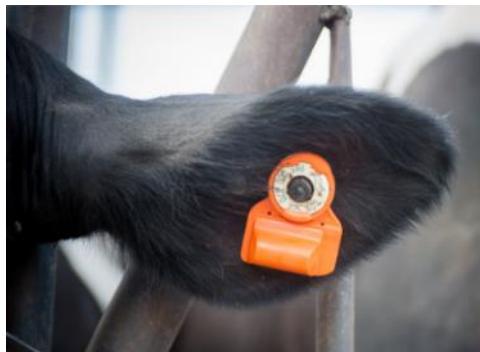


Figure 1

## 5 CWS model information

Currently there are two models (CWS4-S8 and CWS4-S) developed that need to be certified. The major difference between these models is the method of production.

The used hardware (PCBAs) is fully identical for both models and also the material used to protect the electronics.

Due to the different production methods, the appearance of the sensor is slightly different.

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### 6 Information CWS model CWS4-S8



**CWS4-S8**

Figure 2

### 7 Information CWS model CWS4-S9



**CWS4-S9**

Figure 3

### 8 Used electronics in both models



**PCBA**  
**Hardware version 4.1**

Figure 4

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### 9 Marketing info

Benaming	CWS4
Equipment (combination of WIB & CWS	<i>Cow Wellness System</i>
Equipment (sole)	<i>Cow Wellness Sensor</i>
Model/Type ref/HVIN (separation by with comma's)	<i>CWS4-S8, CWS4-S9</i>
Trademark/Brand name	<i>CowManager®</i>
PMN (Product marketingname) = Product description	Earsensor S8, Earsensor S9