

## Sensor Description

Working with the Farmdeck app, the animal monitoring tracks the location of the animal in real time using GPS capabilities.

The sensor also detects and tracks the livestock health which allows farmers to understand rumination behaviours, distress levels (stationary, moving, running) and if they escape the current paddock (geofencing).

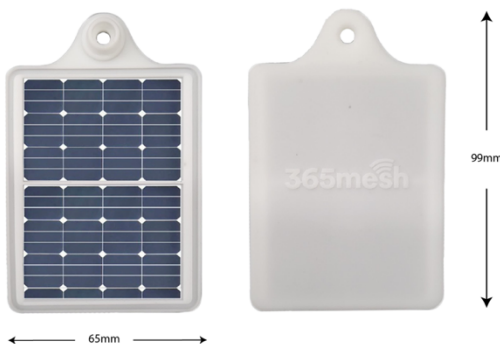


### Features

- GPS location and heading
- Animal health tracking records
- Animal behaviour alerts
- Geofencing
- Activity
- Anti-theft

### Applications

- Animal tracking
- Rumination behaviour
- Disease prediction



## Mechanical Features

Housing	Single prong livestock ear tag
Dimensions (mm)	99mm x 65mm x 3mm
Weight	25 g with solar panel
Case Material	Flexible TPU plastic

## Device Power Supply

Battery	Solar panel with 1000 mAh battery
Expected battery life	Up to 5 years

## Operating Conditions

Temperature	-40°C to +125 °C
-------------	------------------

## Radio/Wireless Connection

Wireless technology	LoRaWAN 1.0.3/1.1
Supported LoRaWAN device type	Class A End-device
Supported LoRaWAN Regions	US902 - 928, AS923, AU915 - 928, KR920-923
Configuration	OTAA, ABP, ADR

## Data Type

Latitude / Longitude, 6 axes gyroscope (m/s).

## Optional Cellular Connection

Wireless Technology	LTE-M/NB/IoT
Supported LTE Bands	LTE-M (Cat-M1): B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B66 NB-IoT (Cat-NB1/NB2): B1, B2, B3, B4, B5, B8, B12, B13
SIM card and format	Internal Nano 4FF SIM