

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