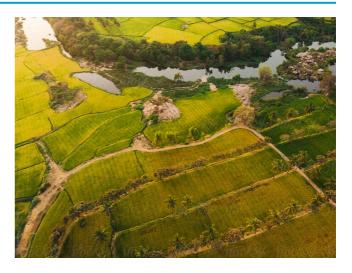
Satellite remote sensing for Paddock Monitoring and pasture availability calculation



Datasheet | Published 20.06.2022

Feature Description

Farmdeck uses Normalised Difference Vegetation Index (NDVI) with a range of satellite scanners and cameras imagery to remotely monitor and manage paddocks and pastures from an aerial view. NDVI remote sensing uses visible and near-infrared light to differentiate between healthy pasture (green) and sparse pastures (red)



Features

- Monitor the quality and "lushness" of paddocks and pasture
- Monitor sward height, biomass, quality, phenological stage, productivity level and species composition
- Differentiate between pasture growth and degradation

Applications

- Keep track of paddocks and pasture conditions based on soil, weather and human activities
- Retrieve grassland biophysical parameters over a period of time
- Monitor grassland degradation
- use trends for rotation plans to take advantage of summer cropping opportunities



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Mechanical Features	
Housing	
Dimensions (mm)	
Weight	
Case Material	
Device Power Supply	
Battery	Solar panel with 1000 mAh battery
Expected battery life	
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	
Voltage	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

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