

DESCRIPTION

The device is designed to determine the index of motion activity of cattle, as well as its location, followed by the transfer of data obtained in the process of measurement to the cloud software platform through specialized mobile radio networks.

The obtained data can be used to determine animals ready for insemination, sick animals, and fallen cattle.



FUNCTIONAL

- Determination of motion activity of RATS
- Determining the appropriate period for fertilization
- Recording changes in the vital activity of cattle
- Location detection
- Battery powered
- Strong waterproof IP-65 enclosure
- Up to 3 years autonomy
- Android/IOS mobile application for device configuration

APPLICATIONS

- Agro-industrial complexes
- Farms

DATA TRANSMISSION

LoRaWAN 1.0.3

SPECIFICATIONS

PARAMETER	CHARACTERISTICS
Enclosure and dimensions	
Color	Black
Material	Glass filled polyamide
Ingress protection rating	IP-65
Dimensions	125x75x37 mm
Weight	300 g
Operational conditions	
Operational temperature range	-40...+85 °C
Humidity	0-100%
Power supply	
Operational voltage range	3.0 V
Battery model	LiMnO2
Battery type	3x CR123 (LiMnO2)
Battery lifetime	Up to 3 years (depending on settings)
Capacity	4500 mAh
GNSS geolocation	
Supported navigation satellite systems	GLONASS/GPS/QZSS
Number of channels	99
Sensitivity	-165 dBm
Cold start time	40 c
Hot start time	2 c
Frequency range	1575,42-1615,5 MHz
Data transmission	
Communication standard	LoRaWAN 1.0.3 class A
Radio frequency range	864-870 МГц
Maximum transmit power	20 dBm
Sensitivity	-137 dBm
Configuration	
Configuration interface	With Android/IOS mobile application
Identification	
Identification method	Embedded NFC tag with device information and LoRaWAN keys
Animal jump detection function	Yes
Configuration interface	With Android/IOS mobile application

CONTACTS

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