## **EV31100, Swine Monitoring Evaluation Kit**



### **Cloud Based System for Monitoring Swine Activity & Body Temperature**

- The kit allows user to evaluate world's first Cloud based swine health monitoring system
- Ideal for research and getting to know the system before mass deployment at large scale
- Easy monitoring and operation using smartphone (iOS, Android) app or Cloud





#### **Care for Swine:**

- This system can detect serious illnesses by monitoring and tracking changes in activity level and body temperature of the animal
- Fully automated health monitoring around the clock (24/7/365).
- Easy setup and installation in any barn environment
- Easy to read charts on animal behavior and temperature
- Alert mechanism to alarm any abnormal behavior or temperature
- Early disease detection to reduce feed, labor, medication, and veterinarian costs



# System Features & Topology

- System components:
  - Tracker, gateway, dashboard software (mobile/desktop), SaaS license
- Al-based embedded algorithms to detect animal behavior:
  - Resting (lying, min movement)
  - Active (walking, standing)
  - Feeding (eating, drinking)









- Animal reference temperature
- Onboard LED to identify a specific animal(s) among others
- Each gateway can support up to 100 trackers

Tracker Technical Specifications				
Dimensions	48 x 30 x 12.7 mm (LxWxH)			
Weight	15 ± 1g			
Battery	1 pre-installed CR2032 coin battery (min. 1 year service life)			
Connectivity	BLE 5.0			
Temperature sensor accuracy	±0.5°C			
Offline data storage capacity	14 days ( Basic activity & body temperature data)			
Data transmission frequency	Once every 30 minutes			
Waterproof level	IP67			
Operating temperature	-10 °C to +55 °C			

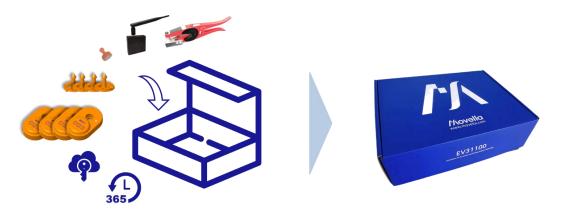
Gateway, Applicator, and Cloud Specifications				
Gateway				
Dimensions	60 x 60 x 22 mm (LxWxH)			
Weight	58g (with antenna)			
Power Supply	5.0V, USB connection (USB cable is provided)			
Connectivity	BLE 5.0 to Tracker & WiFi to cloud or local server			
Waterproof level	Not supported (under consideration for next model)			
Operating temperature	-40 °C to +85 °C			
Applicator				
Dimensions	250 x 65 x 25 mm (LxWxH)			
Weight	327g			
Cloud Service				
Monthly Cloud Service	Requires minimum of 1-year subscription			

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Kit Content				
Device	Marketing Part #	Orderable Part #		
30 x Tracker (electronics, male post, silicon washer)	MM31100	Contact Movella for orderable part #		
1 x Gateway	MA3112F0	Contact Movella for orderable part #		
1 x Tracker applicator	MA3110C0	Contact Movella for orderable part #		
1 x Magnet (for enabling the tracker for the first time)	MA3111S0	MA3111S0		
1-year SaaS model license	Included	NA		
1-year cloud service	Included	NA		



Supporting Documents				
Related Device	Document Type	Document #		
EV31100 (Evaluation Kit)	Application note	ANM-020-0019		
MM31100 (Animal Tracker)	User manual	UGM-020-0015		
MA3112F0 (Gateway)	Application note	ANM-020-0013		
IAM Web Portal & Mobile App	User manual	UGM-020-0016		

For more info visit us at: https://www.xsens.com/intelligent-animal-monitoring

#### **About Movella**

Movella™ is a full-stack hardware, software and data analysis company. Capture motion data and turn it into meaningful and actionable insights. Monitor, capture and analyze all aspects of sports. Cooperate with global leading brands such as EA, NBC Universal, Daimler, Siemens and more than 500 sports teams. Our mission is to make people realize the meaning of movement and make positive changes by digitizing movement. Products accelerate the innovation of entertainment, sports, health and industrial and agricultural markets. We have a wide range of customers, but all products and services are focusing on capturing and analyzing movement.