

MOVEE®



The **MOVEE®** sensor, which integrates a motion sensor, meets the needs of geolocation, operational assistance or industrial preventive maintenance. **MOVEE®** measures and optimizes your industrial performance.

APPLICATIONS

- Geolocation via LoRaWAN® network
- Shock detection
- Activity monitoring, orientation (Tilt)
- Temperature monitoring

BENEFITS & KEY FEATURES

- LoRaWAN®, Class A
- Easy to use and deploy
- Periodic or event-driven data collection
- Measurements at regular intervals
- Up to 5 years autonomy depending on configuration
- IP68

QUALITY & RELIABILITY

- RED, RoHS



The **MOVEE®** sensor enables the logistical tracking of assets through a public LoRaWAN® network (TDoA technology with precision between 50 and 500m) or private network (geofencing).

The sensor also allows the reporting of events (shock, tilt) as part of the monitoring of assets.

Installation and commissioning are quick and easy. The sensor is equipped with:

A button for activation and deactivation,

An RGB LED to monitor configuration and pairing to the network,

The sensor can be fixed in several ways thanks to its "ears": magnets, glue, rivet, screws...

Each sensor is identified by a QR code on the label.

The sensor can also be implemented on fixed assets and provides alerts in case of shock or tilt.

The sensor will then be able to send an alert in case of a collision, for example in the context of monitoring racks in warehouses for collision detection with a forklift truck.

The status of a switch/lever is also addressable with the tilt tracking function.

Powered by a 3.6V/2000mAh battery, the autonomy of the sensor is more than 5 years with a configuration of 4 transmissions per day.

THE LARGEST IOT PRODUCTS RANGE FOR YOUR PROJECT

WATTECO is a European leader in the design and manufacture of smart IoT devices to suit all remote reading and data collection solutions.

WATTECO is a LoRa Alliance® member.

TECHNICAL DATA

RADIOFREQUENCY				
	Frequency (MHz)	Transmit Power (dBm)	Receiver Sensitivity (dBm)	
	EU: 863-870	+14	-140	
FIRMWARE				
Protocol	LoRaWAN®, Class A			
Activation method	Activation by Personalization (ABP) or Over-The-Air Activation (OTAA)			
Data encryption	AES128			
Measurements & Transmission cycles	Configurable from 10 minutes to 24 hours			
MEASUREMENTS				
	Acceleration	Tilt	Temperature	
Range	-16g to +16g	0 to 360°C	-20°C to +55°C	
Accuracy	± 60mg	± 1°	± 1°C	
ALARMS				
Shock	Detection of shock exceeding a predefined threshold on one of the axes (x, y, z)			
Tilt	Detection of inclination exceeding a predefined threshold (pitch, roll), entry/exit of a predefined angular zone, periodic measurement			
Temperature	Detection of exceedance of predefined temperature thresholds (low temperature, high temperature), periodic measurement			
POWER SUPPLY				
Voltage	3.6V / 2000mAh – Replaceable lithium battery			
Autonomy in a range of +10°C to +25°C	> 4 years: 4 transmissions per day			
USER INTERFACES				
QRCode	Product code, serial number, batch number			
Push Button	Configuration and network pairing			
RGB LED	Sensor status			
ENCLOSURE				
	Size (mm)	Fastenings	IP rating	Fire resistance
	76 x 79 x 23	2 magnets and 2 nuts (not supplied)	IP68	UL94-V0HB
ENVIRONMENT				
	Operating conditions		Storage conditions	
	-20°C to +55°C +0%rH to +95%rH (non condensing)		+10°C to +30°C +20%rH to +60%rH	
DIRECTIVES & STANDARD				
Radio Equipment Directive 2014/53/EU, RoHS			  	

PRODUCT NUMBER

REFERENCE	DESCRIPTION
50-80-002	LoRaWAN® MOVEE®