

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®