

	Twave Technologies Meerlaan 9A 9620 Zottegem Belgium	Twave Datasheet #	SMOVE-MANUAL
		Revision #:	2.6
		Date:	14/09/2017

SMOVE: LoRaWAN Accelerometer

KEY FEATURES

- Measure vibrations and motions
- Compact
- Long range
- Long battery life
- Reliable
- Plug and Play
- CE Compliant

APPLICATIONS

- Alarm systems
- Theft alert
- Smart mailbox
- Machinery monitoring



Introduction

SMOVE is a ready to use LoRaWAN accelerometer for remote sensing of motions and vibrations. The compact enclosure holds all electronics including batteries and embedded antenna. The device has been engineered for Long range, Long battery life (up to 3 years), and reliability. Other features are battery level monitoring and regular (every hour) status updates. Provisioning on the network can be done using the supplied LoRaWAN keys. No user configuration is needed making the device easy to use.

Technical specifications

Specifications	
Wireless Interface	LoRaWAN class A,
Antenna	Integrated
Battery type	2 X industrial AAA
Operating voltage	2.1-3.6VDC (3V nominal)
Sleep current	20uA
Rated peak current	100mA
Sensor threshold	30mG
Autonomy	Up to 3 years
Mounting options	Magnet strips
Temperature range	-20 to + 50°C
Relative humidity range	5 to 95%
Dimensions	20x20x60mm
Weight	60 grams
Enclosure Colour options	White or black
Protection against water and dust	IP56

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Device provisioning on the network

The device uses over the air activation (OTAA). AppEUI, Appkey and DevEUI are provided to register the device on the LoRaWAN network of choice.

Uplinked Data payload

Byte 1: 0x00 if the device is not in a moving/vibrating state

0x01 if the device is in a moving/vibrating state

Byte 2: Battery level indication: A decimal number between 0 and 100

The uplink is triggered as soon as the state changes on port 1

Regular status updates (every hour) are uplinked on port 2

NOTE: Too many state changes in a short period of time will not cause further uplinks due to duty cycle regulations.

Safety information

NOTE 1: Only use the Duracell alkaline industrial rated AAA batteries equipped with the device ! Inserting wrong type of batteries can cause malfunction of the device and includes safety risks.

NOTE 2: if the equipment is used in a manner not specified by this manual, the protection provided by the equipment may be impaired

NOTE 3: Cleaning of the device should be done by rubbing it with a slightly wet cloth. Do not use any other chemical liquids.



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Page #:	2 of 2	www.twave.eu	
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