Ⓜ Open/Close Sensor
by MClimate

LoRaWAN

5 cm

-1 cm-

7.2 cm

— 2 cm —

🔋 Battery included

Description

MClimate Open/Close Sensor LoRaWAN® is a device detecting the event of opening or closing windows, doors, cabinets and more. It features long battery life, LED, temperature sensor and a button that triggers an uplink. The device sends an uplink for every event of opening/closing and keeps an internal counter of the total number of events.

SKU: MC-LW-OC-01

Product features

- Magnetic reed switch
- Button
- Temperature sensor

Applications

- Smart Buildings
- Smart home
- Residential buildings
- Commercial buildings

Device specifications

Mechanical specifications

WEIGHT EXCL. BATTERY	26gr
DIMENSIONS	Main unit: 72x20x20mm; Magnet:50x10x15mm
ENCLOSURE	ABS
MOUNTING OPTIONS	Screws and dowels or double-sided tape

Operating conditions

TEMPERATURE	0 - +50°C
HUMIDITY	0-80% RH (non-condensing)

Power supply

BATTERY TYPE	ER14250 or 1/2 AA (included in the device)
OPERATING VOLTAGE	3.6VDC
EXPECTED BATTERY LIFE	5-10 years (depending on configuration and environment)

Open/Close Sensor

by MClimate

Radio/Wireless

WIRELESS TECHNOLOGY	LoRaWAN® 1.0.3
WIRELESS SECURITY	LoRaWAN® End-to-End encryption (AES-CTR)
LORAWAN DEVICE TYPE	Class A End-device
SUPPORTED LORAWAN FEATURES	OTAA, ADR, Adaptive Channels setup
SUPPORTED LORAWAN REGIONS	EU863 – 870; Other LoRaWAN regional settings available upon request
LINK BUDGET	130dB
RF TRANSMIT POWER	14dB

Data types

KEEPALIVE TYPE VALUE	VALUE NAME	DATA SIZE	NOTES
0x00	Reason to send message	1	Possible reasons: Keepalive; Open/Close event; Button press event
0x01	Battery voltage	1	
0x02	Temperature	2	
0x04	Counter	3	
0x07	Open/Close status	1	

LIST OF FUNCTIONS FROM THE PROTOCOL DOCUMENTATION	Read/Write up-link messages types
	Read/Write keepalive period
	Read/Write communication watch-dog parameters
	Read device firmware and hardware version
	Read/Write network join-retry period
	Read/Write Notification Blind Time

Sensors

Temperature

RESOLUTION	±1°C
ACCURACY	±1°C

Reed Switch