



 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)

## 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