# Multipurpose button

by MClimate

LoRaWAN®

7.2 cm

4.2 cm          -1.8 cm-

## Description

MClimate Multipurpose Button LoRaWAN® is a simple device with many applications. Featuring a single button with 3 types of clicks and a temperature sensor, only your imagination limits what happens when the customer presses the button.

## Product features

- Button with 3 click types (single, double and triple)
- Temperature sensor
- Ultra-low power consumption

## Applications

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

## Device specifications

### Mechanical specifications

| | |
|---|---|
| WEIGHT EXCL. BATTERY | 26gr |
| DIMENSIONS | 71x41x18mm |
| ENCLOSURE | ABS |

### Operating conditions

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

### Power supply

| | |
|---|---|
| BATTERY TYPE | ER10280 |
| OPERATING VOLTAGE | 3VDC |
| EXPECTED BATTERY LIFE | < 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; Button press |
| | 0x01 | Battery voltage | 1 | |
| | 0x02 | Temperature | 2 | |
| | 0x04 | Button press type - single, double or triple press | 1 | |

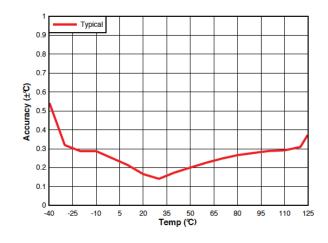| | |
|---|---|
| LIST OF FUNCTIONS FROM THE PROTOCOL DOCUMENTATION | Read/Write up-link messages types |
| | Read/Write keepalive period |
| | Read/Write communication watch-dog parameters |
| | Read device firmware and hardware version |
| | Read/Write network join-retry period |

# Sensors

## Temperature

| | |
|---|---|
| RESOLUTION | 0,1°C |
| ACCURACY | ±0,5°C |