# H&T
by MClimate

LoRaWAN®

8 cm

8 cm

## Description

MClimate HT LoRaWAN Sensor is an indoor temperature and humidity sensor with 10+ years of battery life, configurable settings and beautiful and discreet design.

## Product features

- Smart Buildings
- Smart home
- Residential buildings
- Commercial buildings
- Environment monitoring

## Applications

- Temperature sensor
- Humidity Sensor
- 2xAA Power supply

## Device specifications

### Mechanical specifications

| | |
|---|---|
| WEIGHT | 107gr |
| DIMENSIONS | 70x70x19mm |
| ENCLOSURE | ABS |

### Operating conditions

| | |
|---|---|
| TEMPERATURE | -20+60°C |
| HUMIDITY | 0-80% RH (non-condensing) |

### Power supply

| | |
|---|---|
| BATTERY TYPE | 2xAA (1,5VDC) |
| OPERATING VOLTAGE | 3VDC |
| EXPECTED BATTERY LIFE | < 10 years (depending on configuration and environment) |

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## Radio/Wireless

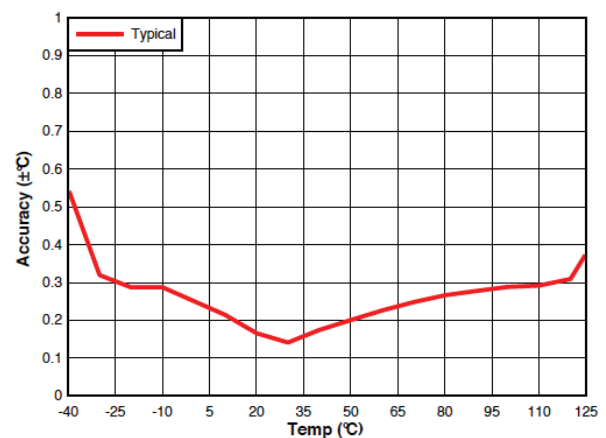| | |
|---|---|
| WIRELESS TECHNOLOGY | LoRaWAN® 1.0.3 |
| WIRELESS SECURITY | LoRaWAN® End-to-End encryption (AES-CTR) |
| LORAWAN DEVICE TYPE | Class A End-device |
| SUPPORTED LORAWAN FEATURES | OTAA, ADR, Adaptive Channels setup |
| SUPPORTED LORAWAN REGIONS | EU863 – 870; Other LoRaWAN regional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

## Data types

| KEEPALIVE | TYPE VALUE | VALUE NAME | DATA SIZE | NOTES |
|---|---|---|---|---|
| List of functions from the protocol documentation | 0x00<br>0x01<br>Read temperature<br>Activate LED (different modes available)<br>Write keepalive period | Reason to send message + status Battery voltage | 1 | Possible reasons: Keepalive; Device test switches; |

# Sensors

## Temperature

| | |
|---|---|
| RESOLUTION | 0,1°C |
| ACCURACY | ±0,2°C |



## Humidity

| | |
|---|---|
| RESOLUTION | 0.1%RH |
| ACCURACY | 2%RH |

# RG2i
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