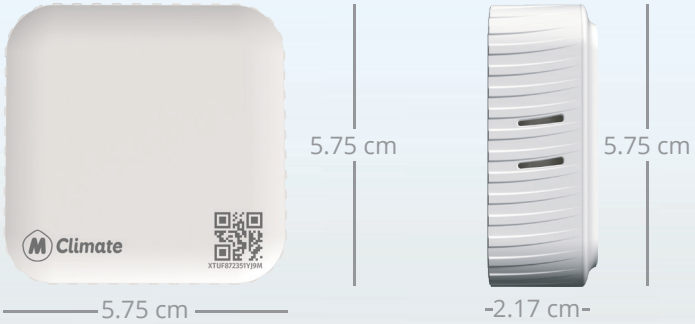
HT mini
by MClimate

LoRaWAN



Batteries included

Description

MClimate HT mini LoRaWAN is a compact indoor temperature and humidity sensor powered by 2xAA batteries lasting for up to 15 years with the default configuration.

SKU: **MC-LW-HT-MINI-01-BI**

Product features

- Temperature sensor
- Humidity Sensor
- 2xAA Power supply
- FUOTA (Firmware Update Over The Air)

Applications

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

Device specifications

Mechanical specifications

WEIGHT	30gr
DIMENSIONS	57.5mm x 57.5mm x 21.7mm
ENCLOSURE	PC/ABS
MOUNTING OPTIONS	Screws and dowels or double-sided tape (included)

Operating conditions

TEMPERATURE	0°- +60°C
HUMIDITY	0-95% RH (non-condensing)

Power supply

BATTERY TYPE	2xAA (1,5VDC) (included in the device)
OPERATING VOLTAGE	3.0VDC
EXPECTED BATTERY LIFE	Up to 15 years with default configuration (depending on radio environment)

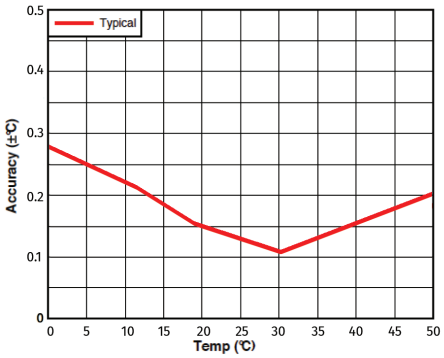
Radio/Wireless

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

Sensors

Temperature

RESOLUTION	0,1°C
ACCURACY	±0,2 - ±0,3°C



Humidity

RESOLUTION	±2
ACCURACY	±3% r.H.

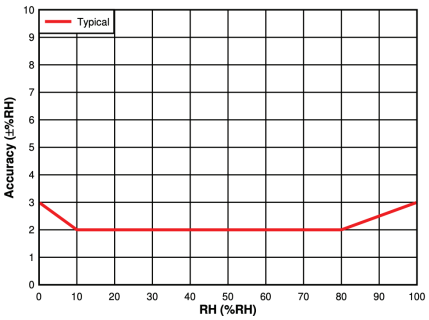


Figure 6-1. RH Accuracy vs. RH

MHT mini
by MClimate

LoRaWAN

Expected battery life

Spreading factor	Battery life
SF7	17 Years
SF8	17 Years
SF9	17 Years
SF10	15 Years
SF11	9 Years
SF12	4 Years

*** Reporting period = 10 minutes**
* Frequency plan = EU868
* 90% battery performance
* Energizer Ultimate Lithium with 20 years of shelf life

Spreading factor	Battery life
SF7	17 Years
SF8	17 Years
SF9	17 Years
SF10	17 Years
SF11	17 Years
SF12	9 Years

*** Reporting period = 20 minutes**
* Frequency plan = EU868
* 90% battery performance
* Energizer Ultimate Lithium with 20 years of shelf life

*Estimate, not a guaranteed value. It does not account for retransmissions, join attempts, temperature effects and other network-related settings outside MClimate's control. See the methodology and Hardware GTC §8.13.