H&T
by MClimate

LoRaWAN®

8 cm

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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

- Temperature sensor
- Humidity Sensor
- 2xAA Power supply

Applications

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

Device specifications

Mechanical specifications

WEIGHT	68gr
DIMENSIONS	80x80x19mm
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)

Radio/Wireless

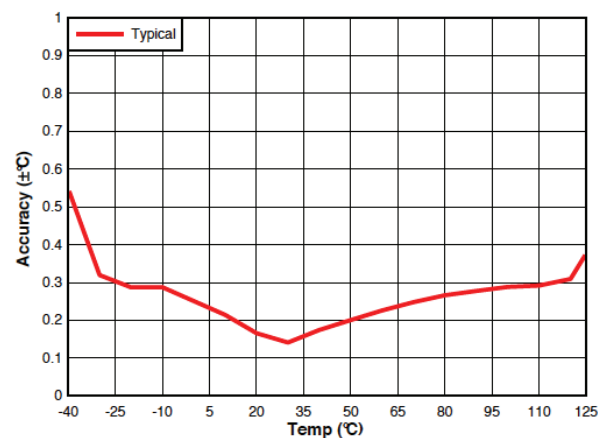|	
WIRELESS TECHNOLOGY	LoRaWAN® 1.0.3
WIRELESS SECURITY	LoRaWAN® End-to-End encryption (AES-CTR)
LORAWAN DEVICE TYPE	Class A End-device
SUPPORTED LORAWAN FEATURES	OTAA, ADR, Adaptive Channels setup
SUPPORTED LORAWAN REGIONS	EU863 – 870; Other LoRaWAN regional settings available upon request
LINK BUDGET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

Data types

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

Sensors

Temperature

RESOLUTION	0,18°C
ACCURACY	±0,2°C

Humidity

RESOLUTION	0.39%RH
ACCURACY	2%RH