

MClimate HT Sensor LoRaWAN®
User manual

Scan the QR Code to access MClimate HT Sensor LoRaWAN® extended documentation



mclimate.eu/lorawan-resources



and issues related to it, visit: mclimate.eu/lorawan-resources or write us to:

lorawan-support@mclimate.eu

00359 800 3 1010 Monday-Friday 09:00 - 18:00

Sofia, Bulgaria
Sofia Tech Park,
labs building, floor 1

Bulgarian

За да разберете как се инсталира MClimate HT Sensor LoRaWAN®, сканирайте QR кода или посетете линка до него.

Italian

Per installare MClimate HT Sensor LoRaWAN® scannerizzare il codice QR oppure aprire il link al suo lato

Swedish

För att ta reda på hur du installerar MClimate HT Sensor LoRaWAN®, skanna QR-koden eller besök länken bredvid den.

German

Um herauszufinden, wie man McLimate HT Sensor LoRaWAN® installiert, scannen Sie den QR-Code oder besuchen Sie den Link daneben.

Dutch

Om te weten te komen hoe u MClimate HT Sensor LoRaWAN® installeert, scan de QR-code of bezoek de link ernaast.

Czech

Chcete-li zjistit, jak nainstalovat MClimate HT Sensor LoRaWAN®, prohlédněte si kód QR nebo navštivte odkaz vedle něj.

Polish

Aby dowiedzieć się, jak zainstalować MClimate HT Sensor LoRaWAN®, zeskanuj kod QR lub odwiedź link obok niego.

Finnish

Tutustu MClimate HT Sensor LoRaWAN®-laitteen asentamiseen, skannaa QR-koodi tai vierailla sen vieressä olevassa linkissä.

French

Pour savoir comment installer MClimate HT Sensor LoRaWAN®, scannez le code QR ou visitez le lien à côté de celui-ci.

Spanish

Para saber cómo instalar MClimate HT Sensor LoRaWAN®, escanee el código QR o visite el enlace al lado.

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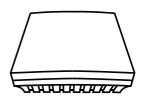
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Installation of external temperature sensor (NTC)



MClimate HT Sensor LoRaWAN®



2xAA Batteries Energizer Lithium Ultimate L91

Technical specifications Description: LoRaWAN temperature and

humidity sensor Model: MC-IW-HT-01-BI

Dimensions: 80 x 80 x 19mm

Weight: 60gr

Frequency range: 863÷870MHz LoRaWAN® Device type: Class A End-device

Power supply: 2xAA batteries 1,5VDC Sensors: built-in temperature and humidity

sensor

Work temperature: 0°C to +50°C Material: ABS

Environmental conditions, in which the device is intended to operate:

- Indoor using;

- for altitude up to 2000m;

- for an ambient temperature:0°C to +60°C; - for maximum relative humidity of 80% for

temperature up to 31°C, decreasing linearly to 25% relative humidity at temperature 50°C; - for environment with a degree of

contamination 2 (PD2). Storage and transportation conditions:

- for an ambient temperature :-40°C to +85°C: - for relative humidity 5% to 90% without

condensation

Manufacturer

MClimate Jsc, 1784 Sofia, Sofia Tech Park, Labs

Building, 111J Tsarigradsko Shose Compliance with the WEEE Directive

The appliance marked with this symbol should not be disposed of with other household waste. It must be handed over to the relevant collection point for the recycling of electrical and electronic equipment.

▲ Safety Instructions

Please read the safety instructions before installing the device! Failure to follow the recommended instructions in this manual may be dangerous or in violation of the law. The manufacturer MClimate Isc., is not responsible for any loss or damage caused by failure to follow the instructions in the operating manual. **Legal Notices** All information, including but not limited to,

specifications are subject to change without notice. MClimate retains all rights to review or update its products, software or documentation without being required to notify any natural or legal person. The MClimate and MClimate logo are trademarks

features, functionality, and / or other product

of MClimate Isc. All other brands and product names mentioned herein are trademarks of their respective owners.

EU Declaration of Conformity This device complies with the essential

requirements and other applicable provisions of the following EU directives: 2014/53/EC. EN 50491-3:2009 FFII 300 220-1 V3 11-2017

FN 60950-1-2006+A11-2009 +A1-2010+A12-2011+ A2:2013 + AC:2015

EEU 300 220-2 V3.1.1:2017, EN 301 489-1 Compatibility

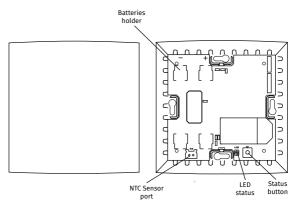
In order to operate MClimate HT Sensor LoRaWAN®, vou will need:

I nRaWAN® network

Battery (2xAA battery 1.5VDC) Device operating voltage: 2.7 - 3.6VDC C E



Device parts



Assembled MClimate HT Sensor LoRaWAN®, top view Disassembled MClimate HT Sensor LoRaWAN®, top view

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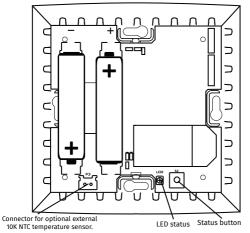
LED, Buttons and behaviour

When you press the button, the device indicates the current network status:

- 1.Device has successfully connected to the network (has received Join Accept):
 a.The LED will show constant light for about 1 second to indicate it has successfully
 connected to a network.
- Device is not yet connected to a network:a.The LED will blink a few times at regular intervals.



LED, Buttons and behaviour

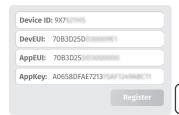




Warning: The button has no other function than to check the connection status. Long-pressing it will NOT reset the device.

Commissioning

1 Open your LoRaWAN® Network provider access panel and add the device using the supplied Serial Number. DevEUI. AppEUI (IoinEUI) and AppKey.





2 Continue the Installation with the instructions of your LoRaWAN® Network provider.

MClimate LoRaWAN 51177

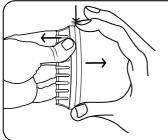
Serial Number	DevEui	AppEui	AppKey	
GN=1000000000000000000000000000000000000	70E	70B	5fc31	034079600



You can get DevEUI, AppEUI (JoinEUI) & AppKey information from the LoRaWAN® credentials .csv file we sent you with the fulfillment confirmation.

3 After pulling away the protective film from the batteries, the device will automatically connect to the network. In order to see whether the device has connected to the network, please check LED, Buttons and behaviour.



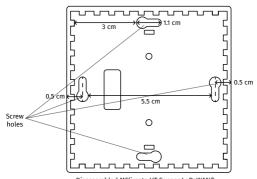


In order to remove the frontal plastic cover, apply pressure on the top and bottom of the front plate with one hand and hold the bottom plate with the other, gently lift one of the sides.

Installation

We recommend installing the device in an open environment (e.g. not in a recess) at 1.5m height. Do not install the device near air vents as it will negatively impact the measurements. Avoid large metal parts as it will worsen the RF performance. Use double-sided tape to attach it or remove the frontal plastic cover and use screws to attach it in a more permanent manner.

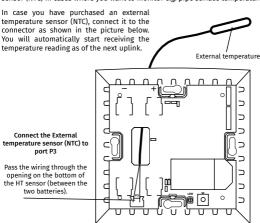
We recommend installing the device so that the QR code with the serial number stays on the bottom-right side of the device in order to ensure good measurements.



Disassembled MClimate HT Sensor LoRaWAN®, back view

Installation of external temperature sensor (NTC)

McLimate HT measures ambient temperature and relative humidity using a digital temperature sensor. The device also supports installing an additional temperature sensor (NTC) in cases where you want to monitor e.g. pipe surface temperature.



Disassembled HT Sensor, top



www.mclimate.eu

Designed & Manufactured by MClimate in Europe.

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