LgRa*WA*N°



MClimate Multipurpose Button LoRaWAN®

User manual

Scan the OR Code to access MClimate Multipurpose Button LoRaWAN® extended documentation





For more product information and issues related to it, visit: mclimate.eu/lorawan-resources

or write us to: lorawan-support@mclimate.eu

00359 800 3 1010 🖸 Sofia, Bulgaria Monday-Friday 09:00 - 18:00

Sofia Tech Park. labs building, floor 1 1

MClimate Multipurpose Button LoRaWAN®.

Bulgarian

се инсталира

сканирайте QR кода или посетете линка Per installare MClimate

до него. Italian

Multipurpose Button

За да разберете как

I nRaWAN® scannerizzare il codice OR oppure aprire il link al suo lato

Swedish För att ta reda på hur du installerar MClimate Multipurpose Button LoRaWAN®, skanna OR-koden eller besök länken bredvid den.

Multipurpose Button LoRaWAN®. problédněte si kód OR nebo navštivte odkaz vedle něj.

Chcete-li zjistit, jak

nainstalovat

MClimate

Polish Aby dowiedzieć sie, iak

Czech

zainstalować MClimate Multipurpose Button LoRaWAN®, zeskanui kod OR lub odwiedź link obok niego.

Finnish Tutustu MClimate Multipurpose Button LoRaWAN®-laitteen asentamiseen, skannaa OR-koodi tai vierailla sen vieressä olevassa linkissä.

Um herauszufinden, wie man MClimate Multipurpose Button LoRaWAN® installiert, scannen Sie den QR-Code oder besuchen Sie den Link danehen. Pour savoir comment installer MClimate

French

Multipurpose Button LoRaWAN®, scannez le code QR ou visitez le lien à côté de celui-ci.

Dutch

German

Om te weten te komen hoe u MClimate Multipurpose Button LoRaWAN® installeert, scan de OR-code of

bezoek de link ernaast.

Spanish Para saber cómo instalar MClimate

Instalar McLimate Multipurpose Button LoRaWAN®, escanee el código QR o visite el enlace al lado.

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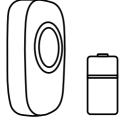
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What's inside the box?



MClimate Multipurpose ER10280 3VDC Button LoRaWAN® battery

Technical specifications Description: LoRaWAN Button with temperature sensor and 3 types of button presses (single, double and triple press)

Created by MClimate™ Model: MC-I W-RTN-01

Dimensions: 71 v 41 v 18mm Weight: 26gr

Frequency range: 863+870MHz

Power supply: 1xER10280 3VDC battery Sensors: built-in temperature 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 Isc. 1729 Sofia 31. Alexander Malinov Blvd. Building 2, Floor 2 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

in the operating manual.

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

Legal Notices

All information, including but not limited to, features, functionality, and I or other product 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 of Mclimate Jsc. All other brands and product names mentioned herein are trademarks of their respective owners.

EU Declaration of Conformity

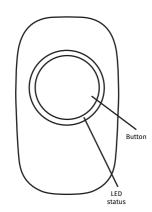
This device complies with the essential requirements and other applicable provisions of the following EU directives:

2014/53/EC, EN 50491-3:2009 EEU 300 220-1 V3.1:2017 EN 60950-1:2006-A11:2009 +A1:2010+A12:2011+ A2:2013 + AC:2015 FEII 300 220-2 V3.1:2017. FN 301 489-1 V2.11:2017

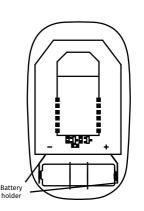
Compatibility
In order to operate MClimate Multipurpose Button
LORAWAN®, you will need:
IORAWAN® network

(€)₹

Device parts



Assembled MClimate Multipurpose Button LoRaWAN®, top view



Disassembled MClimate Multipurpose Button LoRaWAN®, bottom view

LED, Buttons and behaviour

There are three separate types of clicks supported by the button. After each click the button waits for 600ms to check if another click is coming. Once the click type has been determined, the device sends a confirmed uplink with the temperature data and the click type

information. Supported click types:



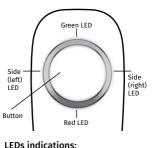
אין Single click



Double click



Triple click



- The GREEN LED is activated while the button is

- pressed - The side LEDs alternate when the LoRaWAN
- message is being sent - The GREEN LED lights up when the uplink is
- sent and acknowledged by the gateway and LNS

 If the message has not been successfully
- acknowledged, the RED LED activates

 If a message is not allowed to be sent at the moment (due to RF duty-cycle restrictions), the
- RED light activates after you release the button.

 If the sensor is NOT connected to a network,

Commissioning

Before you install the device, we highly recommend that you first commission it on your INS. Once the battery paper isolator is removed, the device will initiate a LoRaWAN Join Procedure on SF12. Please, make sure you enable ADR in your LNS and/or mark the device as static. The lower the spreading factor, the better the performance of the energy storage will be.

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





The data is example. Do not use.

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

MClimate_LoRaWAN_51177

 Serial Number
 DevEul
 AppEul
 AppKey

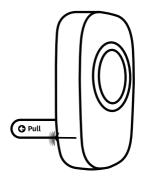
 Qv
 70€
 708:
 56:31



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

Commissioning

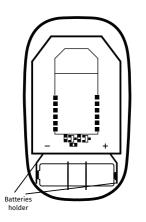
Remove the battery paper isolator from the device.



Open the device

If you need to open the device to replace the battery, use the slot indicated in the picture to open the device. Insert the new battery following the direction indicated on the PCB.

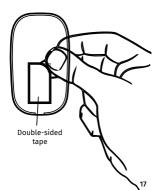


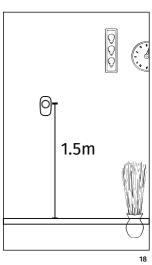


Disassembled MClimate Multipurpose Button LoRaWAN®, top view

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 big metal items as it will worsen the RF performance. Use double-sided tape to attach it to the surface.







www.mclimate.eu Designed & Manufactured by MClimate in Europe.

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