



MClimate Flood Sensor LoRaWAN®

User manual

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



mclimate.eu/lorawan-resources

Bulgarian

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

Czech

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

Finnish

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

Danish

For at finde ud af, hvordan du installerer MClimate Flood Sensor LoRaWAN®, scan QR-koden eller besøg linket ud for det.

Italian

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

German

Um herauszufinden, wie man MClimate Flood Sensor LoRaWAN® installiert, scannen Sie den QR-Code oder besuchen Sie den Link

Latvian

Lai uzzinātu, kā instalēt MClimate Flood Sensor LoRaWAN®, skenēt QR kodu vai apmeklējiet saiti blakus tai.

Spanish

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

Dutch

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

Hungarian

A MClimate Flood Sensor LoRaWAN® telepítésének kiderítéséhez keresse meg a QR-kódot, vagy keresse fel a mellette található linket.

Irish

Chun a fháil amach conas a shuiteáil MClimate Flood Sensor LoRaWAN®, scanadh an cód QR nó tabhair cuairt ar an nasc in aice leis é.

French

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

Estonian

Et teada saada, kuidas installida MClimate Flood Sensor LoRaWAN®, QR-koodi või külastada linki kõrval.

Swedish

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

Portuguese

Para saber como instalar MClimate Flood Sensor LoRaWAN®, digitalize o código QR ou visite o link ao lado dele.

Maltese

Biex issir taf kif jinstallaw MClimate Flood Sensor LoRaWAN®, skennjati l-kodiċi QR jew żur il-link li jmiss ilu.

Romanian

Pentru a afla cum să instalați MClimate Flood Sensor LoRaWAN®, scanați codul QR sau accesați link-ul de lângă acesta.

Slovak

Ak chcete zistiť, ako nainštalovať MClimate Flood Sensor LoRaWAN®, skenujte kód QR alebo navštívte odkaz vedľa nej.

Russian

Чтобы узнать, как установить MClimate Flood Sensor LoRaWAN®, отсканируйте QR-код или перейдите по ссылке, расположенной рядом с ним.

Lithuanian

Norėdami sužinoti, kaip įdiegti MClimate Flood Sensor LoRaWAN®, nuskaitykite QR kodą arba apsilankykite nuorodą šalia jo.

Polish

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

Greek

Για να μάθετε πώς να εγκαταστήσετε τον MClimate Flood Sensor LoRaWAN®, σκανάρете τον QR κωδικό ή επισκεφτείτε τον σύνδεσμο δίπλα του.

Need some help?



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
Monday-Friday 09:00 - 18:00

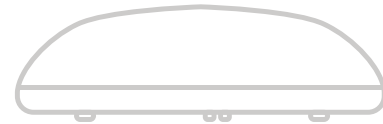


Sofia, Bulgaria
Aleksandar Malinov Boulevard 31, Campus X, Building 2,
floor 1, office 1-2

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What's inside the box?



MClimate Flood Sensor LoRaWAN®

Technical specifications

Description: LoRaWAN® flood sensor

Model: MC-LW-Flood

Dimensions: 70 x 70 x 19mm

Weight: 33gr

Frequency range: 863÷870MHz

Pwer supply: 1xCR123A battery 3VDC

Sensors: 3-pin flood sensor, 1xNTC temperature sensor

Work temperature: 0°C to +60°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

Melissa Climate Jsc

Gen. Gurko 4 street

1000 Sofia,Bulgaria

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 Melissa Climate Jsc., is not responsible for any loss or damage caused by failure to follow the instructions in the operating manual.

Legal Notices

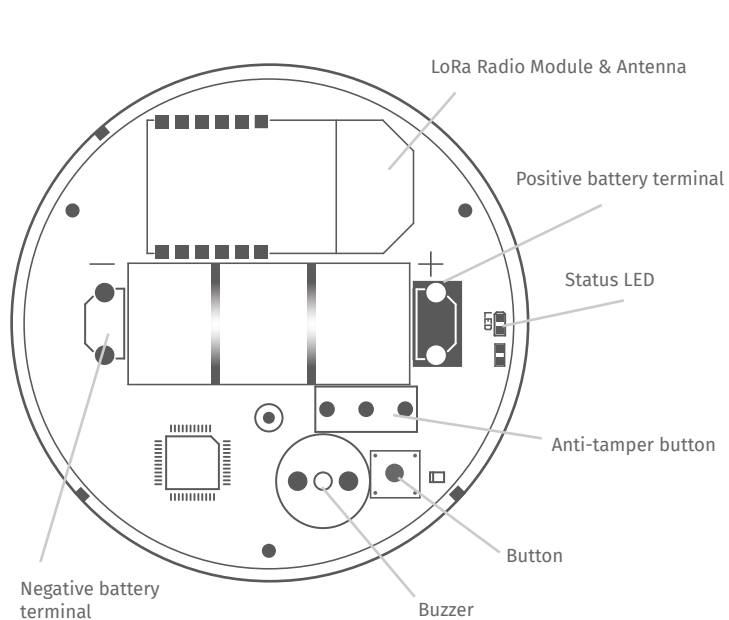
All information, including but not limited to, features, functionality, and / or other product specifications are subject to change without notice. MClimate retains all rights to review or update its products, software or documentation without being required to notify any private or legal person. The MClimate and MClimate logo are trademarks of Melissa Climate Jsc. All other brands and product names mentioned herein are trademarks of their respective owners.

Compatibility

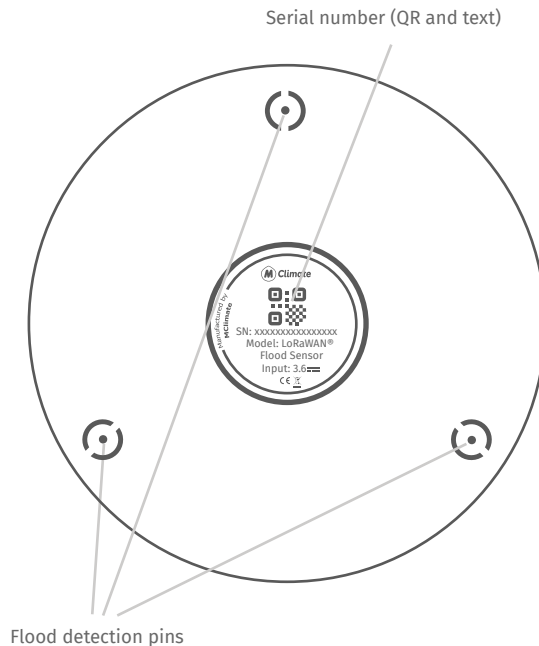
In order to operate MClimate Flood Sensor LoRaWAN, you will need:
LoRaWAN® network
Battery

Battery type: 1xCR123A battery 3VDC
Device operating voltage: 2.7 - 3.6VDC

Device parts



Device on the inside, PCB




Device, back

Commissioning


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

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

 The data is example. Do not use.

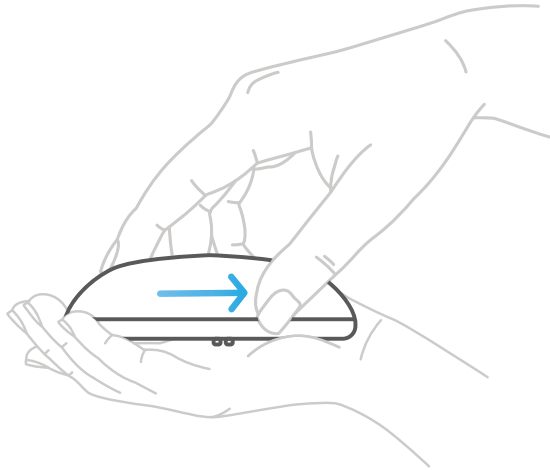
MClimate_LoRaWAN_51177

Serial Number	DevEui	AppEui	AppKey
GV...	70f...	70B3D25DD3000000	5fc31...

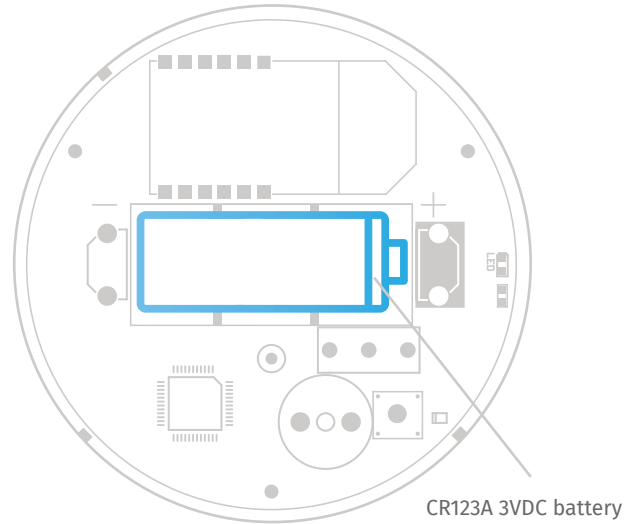
 You can get DevEUI, AppEUI (JoinEUI) & AppKey information from the LoRaWAN® credentials .csv file we sent you with the fulfillment confirmation.

Commissioning

3 In order to remove the top plastic cover, apply pressure with two hands on the device from the top and bottom sides. Then gently twist the device counterclockwise until you feel a soft click and lift the top plastic cover.



4 After inserting the 1xCR123A 3VDC battery in the device, it will automatically connect to a network. In order to see whether the device has connected to the network, please check section **LED, Buttons and behaviour**.



LED, Buttons, Buzzer and behaviour

The device has 1 **Button**, 1 **Anti-tamper button**, 1 **LED** and 1 **Acoustic buzzer**. The anti-tamper button is activated when the device is opened. A special uplink will be sent at the earliest convenience. The second button is used during commissioning in order to check if the device has connected to the network.

Button

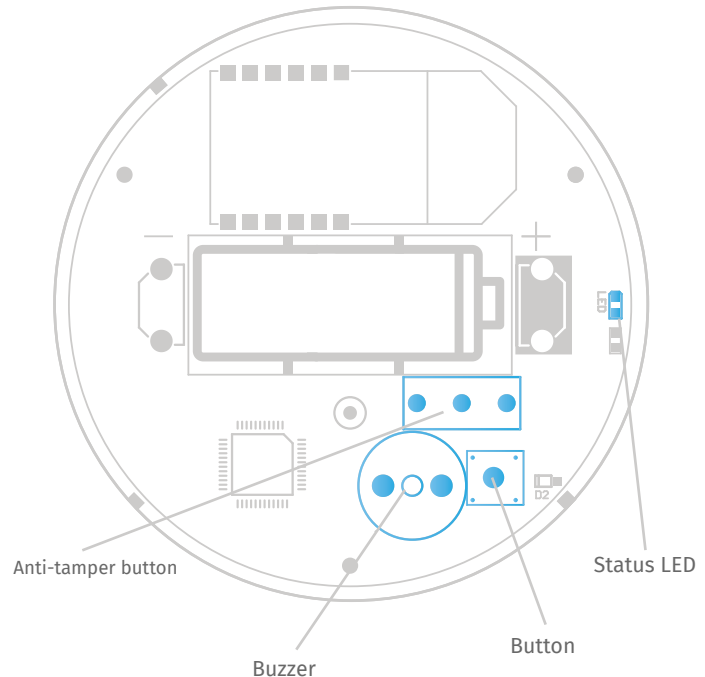
- When you click the **Button**, the device will activate the LED with the corresponding animation indicating whether the device is connected to a network or not.

- 5 fast blinks mean that the device is not yet connected to a network. A single slow blink means the device is connected to a network.

Buzzer

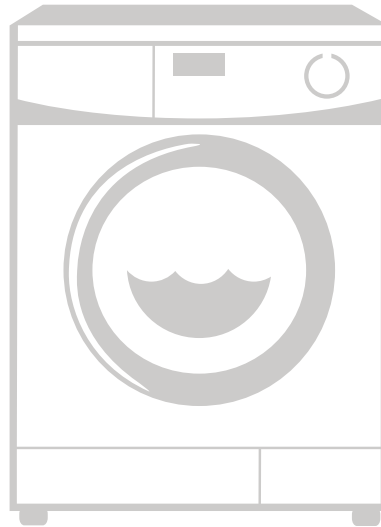
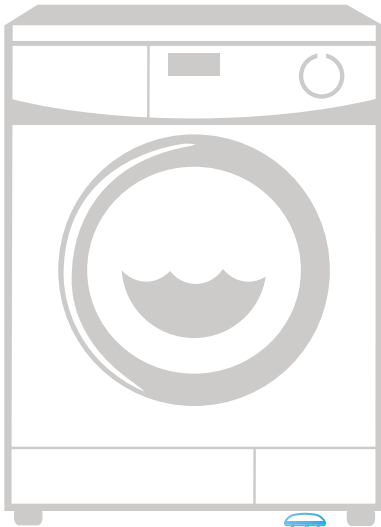
The **Buzzer** of the device activates when a flood has been detected. One can change this behaviour using the appropriate downlink. Please consult MClimate's website for full documentation of available downlink commands for the device.

In order for the device to detect a flood, all three flood detection pins should be in contact with the conductive media.



Installation

There are no special instructions regarding the installation. One must consider NOT installing the device directly under appliances (e.g. washing machine) as the metal parts will influence the RF performance. Instead, please keep the device 1-2cm away from the appliance.





www.mclimate.eu

Designed & Manufactured by MClimate in Europe.