

MClimate Flood Sensor LoRaWAN®

User manual

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



mclimate.eu/lorawan-resources

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

Bulgarian

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

Italian

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

Swedish

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

German

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

Dutch

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

Czech

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

Polish

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

Finnish

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

French

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

Spanish

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

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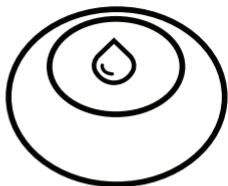
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What's inside the box?



MClimate 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

LoRaWAN® Device type: Class A End-device

Power supply: 1xCR123A battery 3VDC

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

Work temperature: -20°C to +60°C

Material: ABS

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

- for indoor use only;
- 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 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 natural or legal person.

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Compatibility

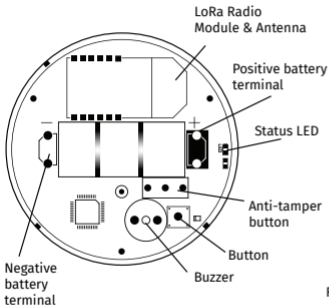
In order to operate MClimate Flood Sensor LoRaWAN®, you will need:

Battery type: 1xCR123A battery 3VDC

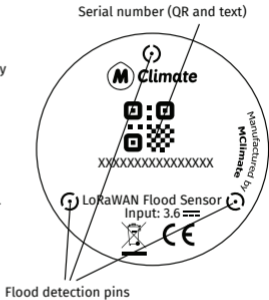
Device operating voltage: 2.7 - 3.6VDC



Device parts



Device on the inside, PCB top



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.

Device ID: 9X762795
DevEUI: 70B3D25D030009E1
AppEUI: 70B3D25D03000000
AppKey: A0658DFAE721375AF247ABC71
<input type="button" value="Register"/>



The data is example.
Do not use.

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

MClimate_LoRaWAN_51177

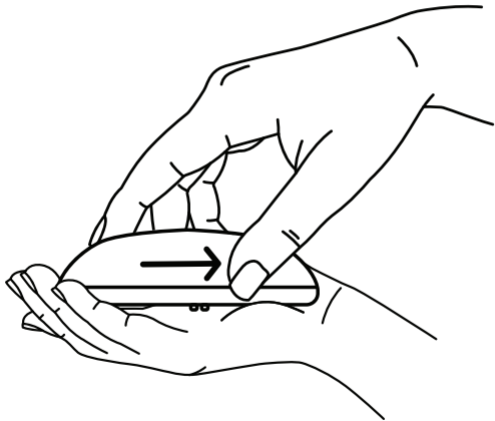
Serial Number	DevEui	AppEui	AppKey
GW1000000000000000	70B3D25D030009E1	70B3D25D03000000	5fc31344640000000000000000000000



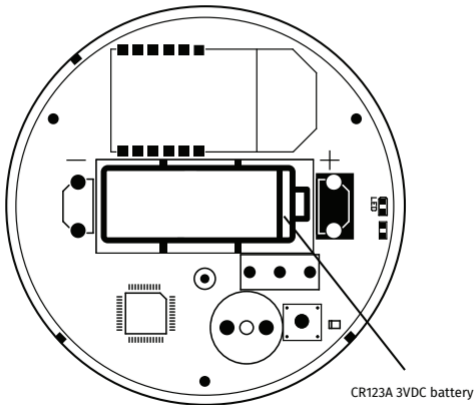
You can get DevEUI, AppEUI (JoinEUI) & AppKey information from the LoRaWAN® credentials .csv file we sent you with the fulfillment confirmation.

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 Insert a CR123A to power 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

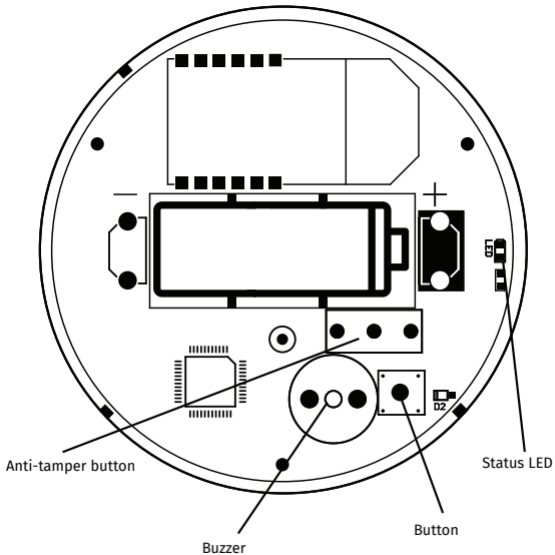
- When you click the Button, the device will activate the LED with the corresponding animation indicating whether the device is connected to a network or not.

- 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.





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