



## MClimate Vicki LoRaWAN Target Temperature Control Device Installation Guide

[Home](#) » [MClimate](#) » MClimate Vicki LoRaWAN Target Temperature Control Device Installation Guide 



### Vicki LoRaWAN Target Temperature Control Device Installation Guide



#### Installation guide

Scan the QR Code to access Vicki LoRaWAN's extended documentation



[climate.eu/lorawan-resources](https://climate.eu/lorawan-resources)

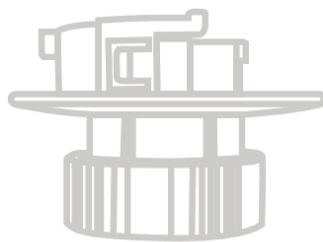
## Contents

- 1 Inside the box
- 2 Technical specifications
- 3 Safety Instructions
- 4 Legal Notices
- 5 Compatibility
- 6 Batteries
- 7 Installation
- 8 Device operation
- 9 Documents / Resources
  - 9.1 References
- 10 Related Posts

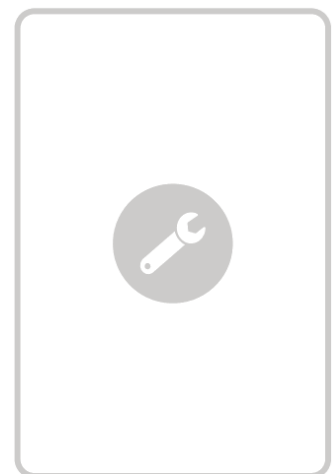
## Inside the box



Vicki



Vicki's backplate



User manual

## Technical specifications

**Description:** MClimate Vicki LoRaWAN – Smart Radiator  
Thermostat Developed & Manufactured by MClimateTM

**Model:** MC-LW-V02

**Dimensions:** 54x78x50mm

**Weight:** 107gr.

**Wireless technology:** LoRaWAN® 1.0.3

**LoRaWAN 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:** EU868 870

**Link budget:** 130dB RF Transmit power: 14dB

**Power supply:** 3V (2 x AA batteries)

**Sensors:** temperature and humidity

**Work temperature:** 0° to +60°

**Material:** ABS + Glass

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

- Indoor only;
- Altitude up to 2000m;
- Ambient temperature: 0° to +60°;
- Maximum relative humidity of 80% for temperatures up to 31°, decreasing linearly to 25% relative humidity at a temperature of 50°;
- Environment with contamination degree 2 (PD2).

**Storage and transportation conditions:**

- Ambient temperature :  
-40° to +85°;
- 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. climate retains all rights to review or update its products, software or documentation without being required to notify any private or legal person. The climate and MClimate logo are trademarks of Melissa Climate 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:

**Health: EN 62479:2010**

**2014/35/EU Low Voltage Directive:**

**EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013**

**2014/30/EU EMC**

**Directive: EN 301 489-1 V2.1.1 EN 301 489-3 V2.1.1**

**Radio Equipment Directive (RED):**

**EN 300 220-1 V3.1.1**

**EN 300 220-2 V3.1.1**

You can find a copy of the Declaration of Conformity at [www.climate.eu/conformity](http://www.climate.eu/conformity)

## Compatibility

**Vicki works with the majority of radiator valves.**

Default radiator valve fitting: M30x1.5 Available adaptors: RA, RAV, RAVL, ORAS, Oventrop

**In order to operate Vicki, you will need:**

LoRaWAN network

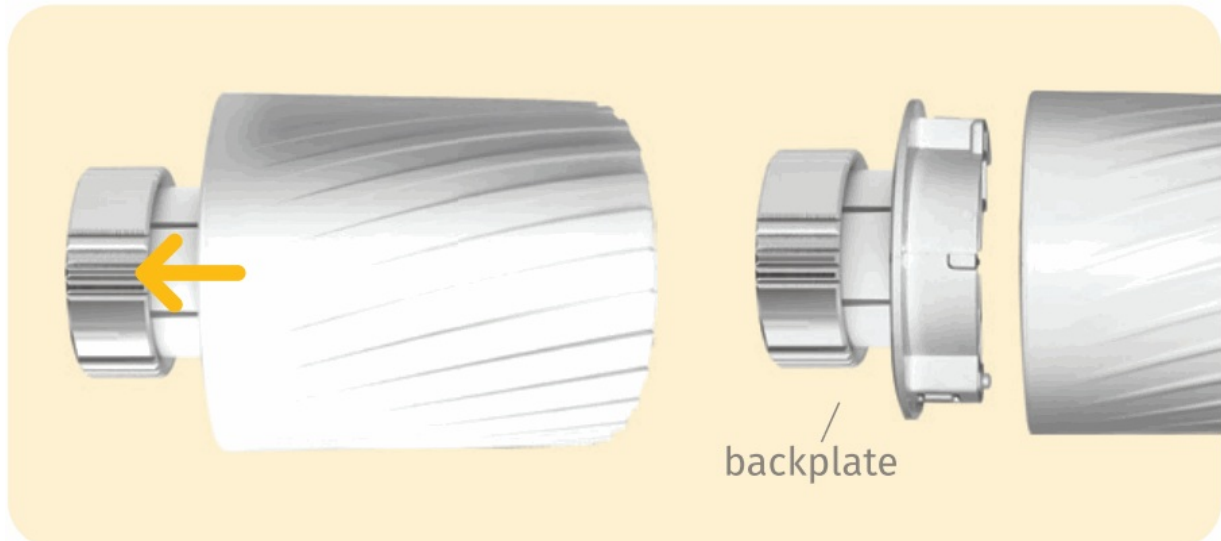
**Batteries**

**Battery type:** 2xAA (1.5VDC each)

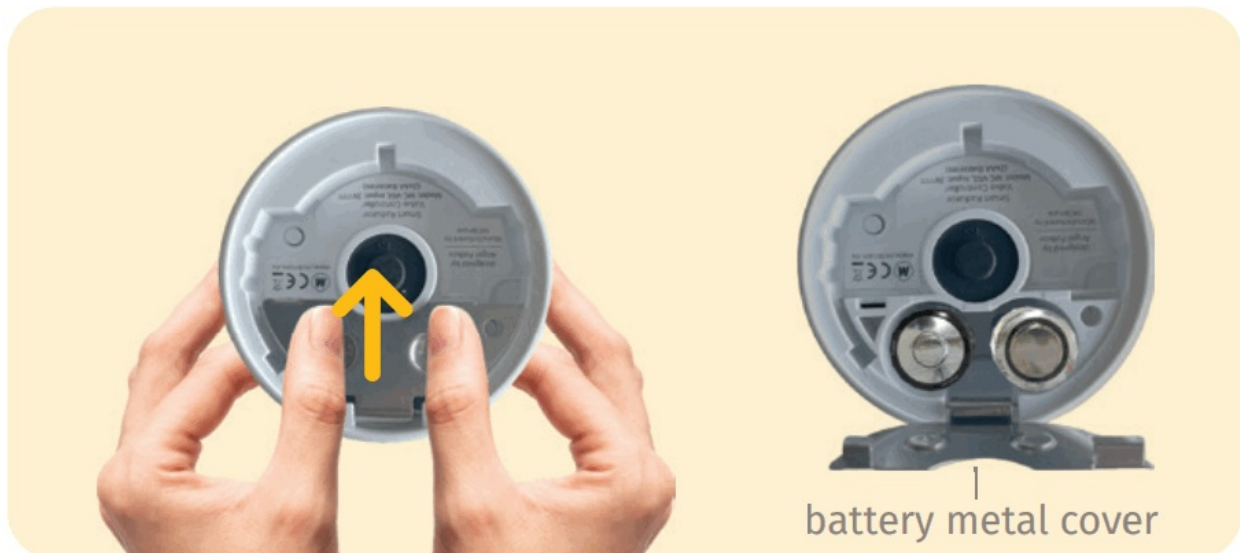
**Device operating voltage:** 2.7 – 3.6VDC

## Batteries

Follow the steps below to insert the batteries.

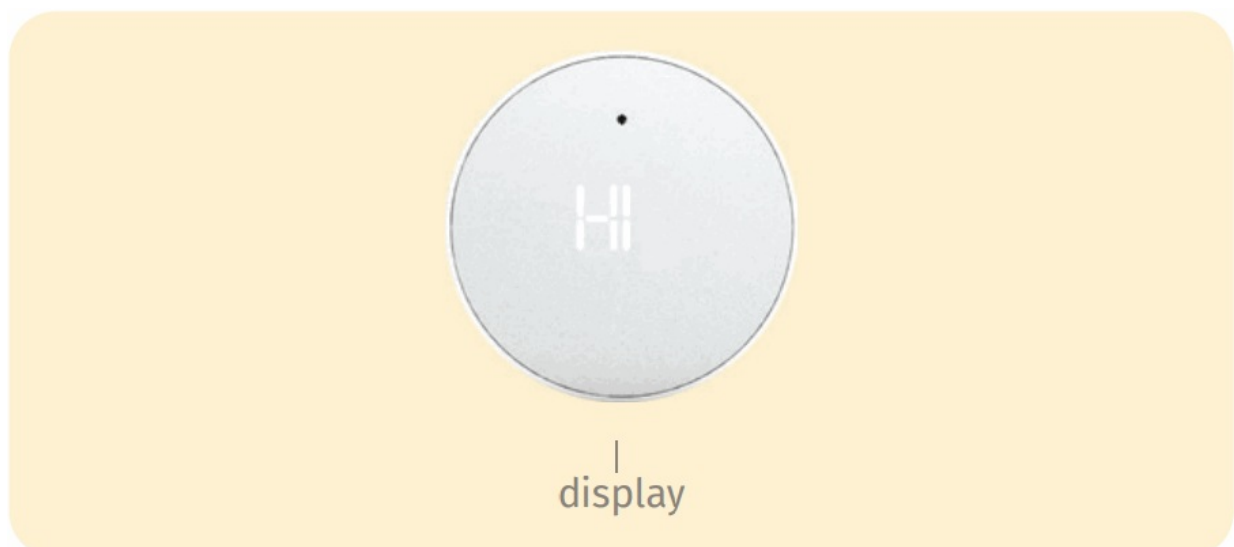


1. Unplug the backplate of Vicki.



2. Open the metal battery cover gently by using two fingers.

3. Insert 2xAA 1.5VDC batteries and fix the battery cover tightly in place.



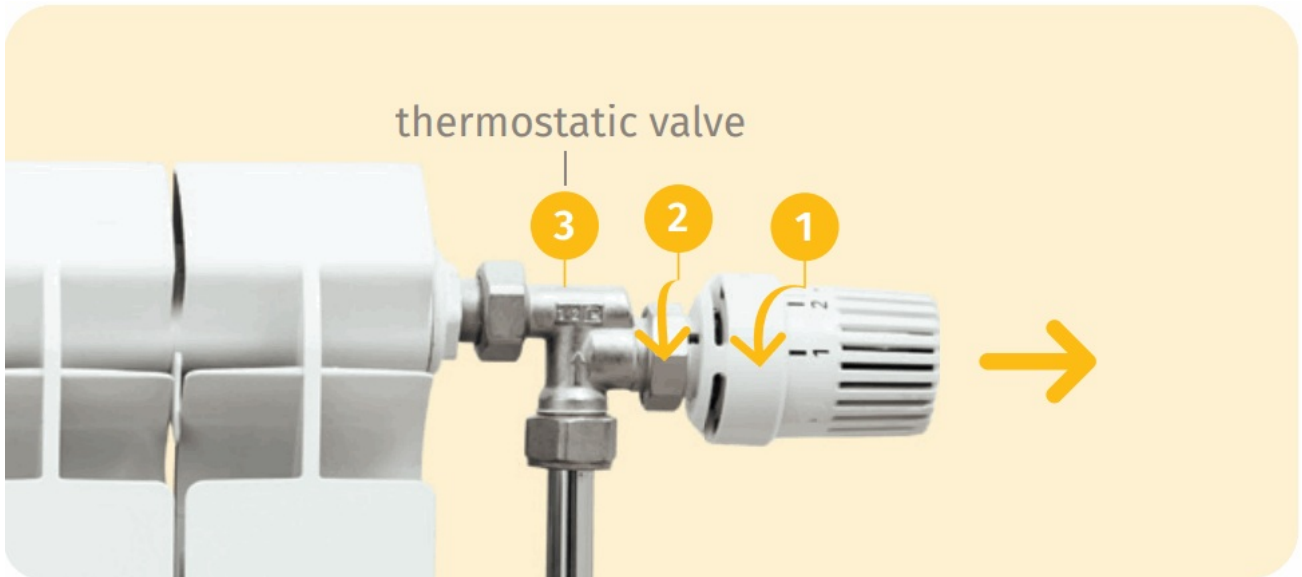
4. After successfully inserting the batteries and closing the metal battery plate, the device will display "Hi".

### Recommended batteries:

Energizer Lithium Ultimate L91 Device does not operate with rechargeable batteries!

## Installation

### Remove the old thermostatic valve.

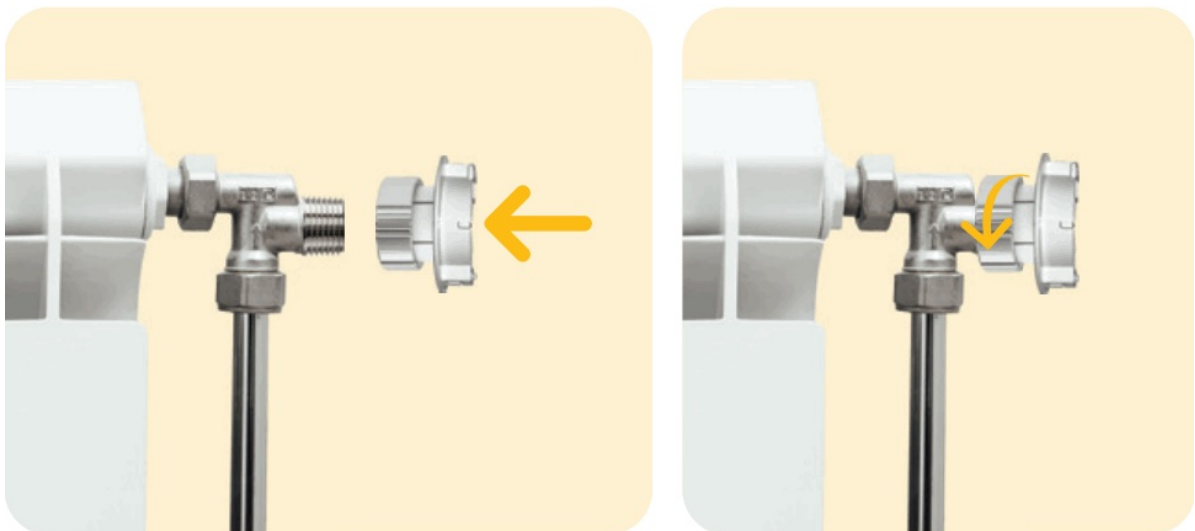


1. Set the old thermostatic valve to the highest setting (e.g. 5) 1.
2. Unscrew the securing ring 2 and remove the thermostat.

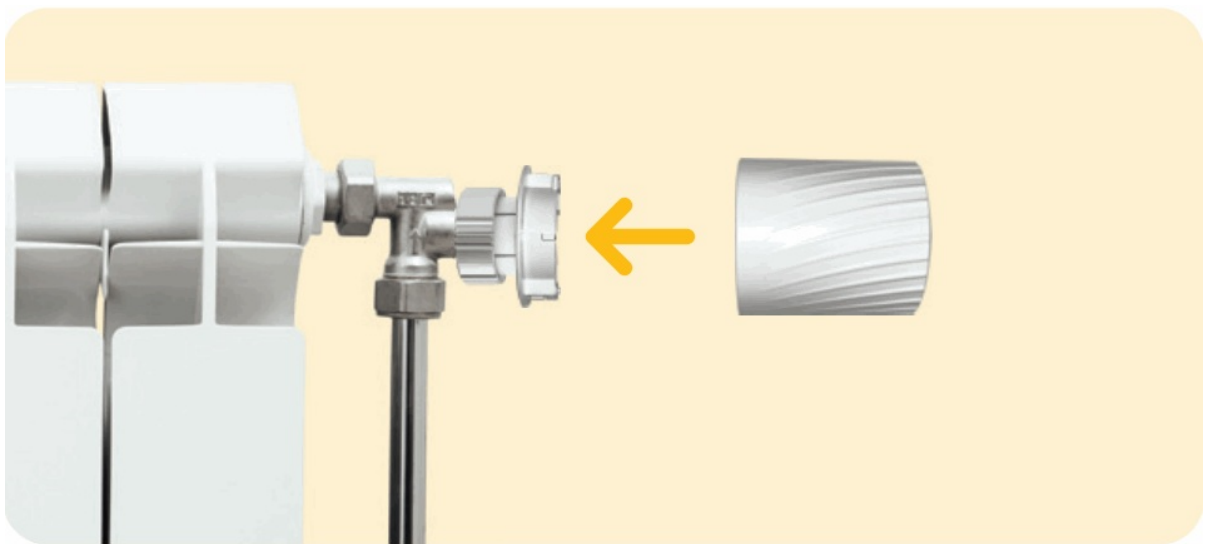


**Warning:** If you already have a thermostatic valve, during installation no water will leak. If you don't have a thermostatic valve, please call a specialist and ask them to replace your valves.

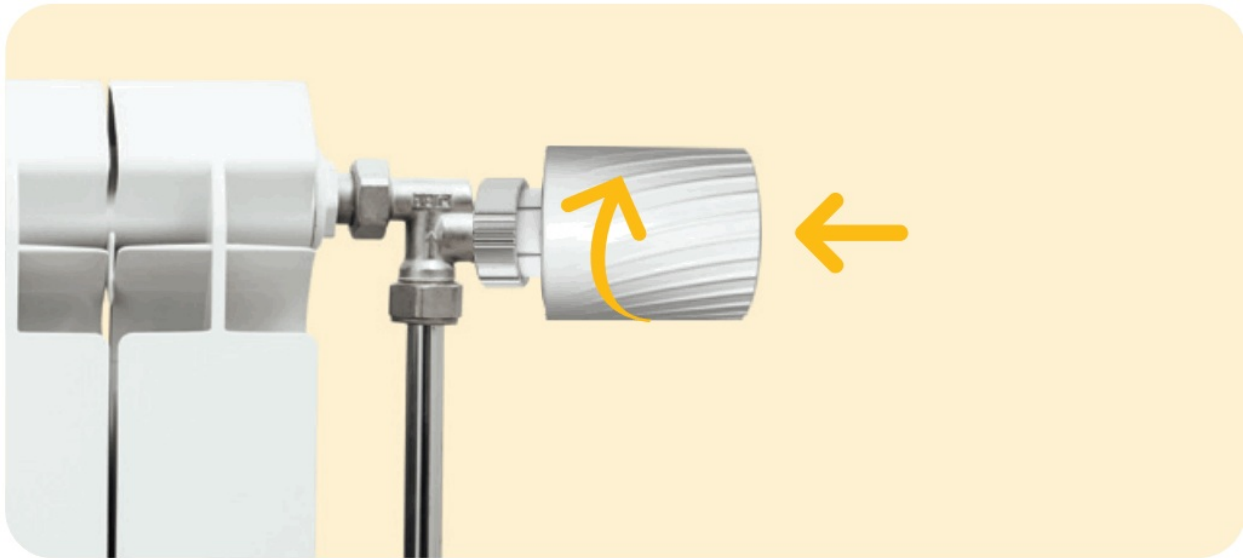
### Mount Vicki on the thermostatic valve



1. Place the backplate of Vicki on the thermostatic valve.
2. Screw tightly the securing ring. Do it by hand, no special instruments are required. Do not overscrew.



3. Insert Vicki on the backplate.



4. Apply moderate pressure with your palm on Vicki's display and rotate the device clockwise to secure it on the backplate.



5 After successfully mounting of Vicki the front display must show the calibration animation.

## Installation

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

**Device ID:** 9X7621HS

**DevEUI:** 70B3D25DD30009E1

**AppEUI:** 70B3D25DD3000000

**AppKey:** a0658dfae72131saf1249abc11

**Register**



The data is an example. Do not use

2. continue the Installation with the instructions of your LoRaWAN Network provider.

**MClimate\_LoRaWAN\_51177**

Serial Number	DevEui	AppEui	AppKey
GV...	70B...	70B...	5fc31...



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

## Device operation

### Manual target temperature control



You can set the desired temperature directly from Vicki by rotating the device until you see the target temperature on the display.

**Low battery indication**



If Vicki's batteries are running low, she indicates that by showing a "Lo" message on the display.

**Child lock**



If the Child lock is activated, Vicki's display will show "Ch" and the manual temperature control will be disabled.

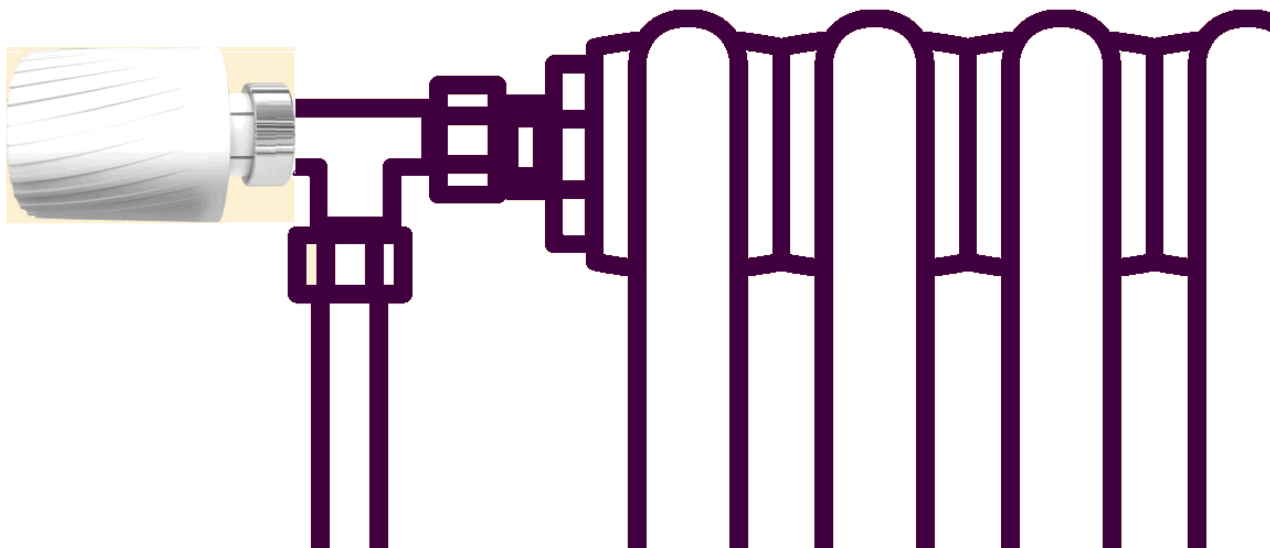
### Calibration



Once you attach Vicki to the radiator, a calibration process will be initiated. The aim of the calibration process is to let Vicki know the kind of valve she is attached to. During calibration, the display will show a loading animation.



Please, do not dismount the device during calibration!



# Climate

[www.climate.eu](http://www.climate.eu)

Designed & Manufactured by the climate in Europe.



### Need some help?

For more product information and issues related to it, visit [mclimate.eu/lorawan-resources](http://mclimate.eu/lorawan-resources)  
or write us at: [lorawan-support@mclimate.eu](mailto: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

## Documents / Resources



[MClimate Vicki LoRaWAN Target Temperature Control Device](#) [pdf] Installation Guide  
Vicki LoRaWAN, Target Temperature Control Device, Vicki LoRaWAN Target Temperature Control Device

## References

- [LoRaWAN Resources | MClimate](#)

-  [MClimate | MClimate - We make any building smart](#)
-  [mclimate.eu/conformity](https://mclimate.eu/conformity)