



## Installation guide

# Scan the QR Code to access Vicki LoRaWAN extended documentation



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

## Bulgarian

За да разберете как се инсталира Vicki, сканирайте QR кода или посетете линка до него.

## Czech

Chcete-li zjistit, jak nainstalovat Vicki, prohlédněte si kód QR nebo navštivte odkaz vedle něj.

## Finnish

Tutustu Vicki-laitteen asentamiseen, skanna QR-koodi tai vierailla sen vieressä olevassa linkissä.

## Danish

For at finde ud af, hvordan du installerer Vicki, scan QR-koden eller besøg linket ud for det.

## Italian

Per installare Vicki scannerizzare il codice QR oppure aprire il link al suo lato.

## German

Um herauszufinden, wie man Vicki installiert, scannen Sie den QR-Code oder besuchen Sie den Link daneben.

## Latvian

Lai uzzinātu, kā instalēt Vicki, skenēt QR kodu vai apmeklējiet saiti blakus tai.

## Spanish

Para saber cómo instalar Vicki, escanee el código QR o visite el enlace al lado.

## Dutch

Om te weten te komen hoe u Vicki installeert, scan de QR-code of bezoek de link eraanst.

## Hungarian

A Vicki telepítéséhez kiderítéséhez keresse meg a QR-kódot, vagy keresse fel a mellette található linket.

## Irish

Chun a fháil amach conas a shuiteáil Vicki, scanadh an cód QR nó tabhair cuairt ar an nasc in aice leis é.

## French

Pour savoir comment installer Vicki, scannez le code QR ou visitez le lien à côté de celui-ci.

## Estonian

Et teada saada, kuidas installida Vicki, QR-koodi või külastada linki kõrval.

## Swedish

För att ta reda på hur du installerar Vicki, skanna QR-koden eller besök länken bredvid den.

## Portuguese

Para saber como instalar Vicki, digitalize o código QR ou visite o link ao lado dele.

## Maltese

Bix issir taf kif jinstallaw Vicki, skennjati l-kodiċi QR jew żur il-link li jmiss lili.

## Romanian

Pentru a afla cum să instalați Vicki, scanați codul QR sau accesați link-ul de lângă acesta.

## Slovak

Ak chcete zistiť, ako nainštalovať Vicki, skenujte kód QR alebo navštívte odkaz vedľa neja.

## Russian

Чтобы узнать, как установить Vicki, отсканируйте QR-код или перейдите по ссылке, расположенной рядом с ним.

## Lithuanian

Norėdami sužinoti, kaip įdiegti Vicki, nuskaitykite QR kodą arba apsilankykite nuorodą šalia jo.

## Polish

Aby dowiedzieć się, jak zainstalować Vicki, zeskanuj kod QR lub odwiedź link obok niego.


## Greek


Για να μάθετε πως να εγκαταστήσετε τον Vicki, σκανάρете τον QR κωδικό ή επισκεφτείτε τον σύνδεσμο δίπλα του.

## Need some help?

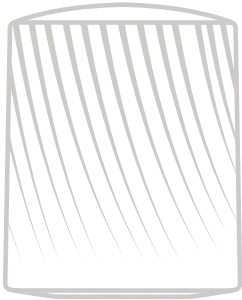


For more product information and issues related to it, visit: [mclimate.eu/lorawan-resources](https://mclimate.eu/lorawan-resources) or write us to: [lorawan-support@mclimate.eu](mailto:lorawan-support@mclimate.eu)

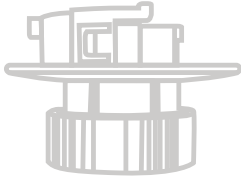
 **00359 800 3 1010**  
Monday-Friday 09:00 - 18:00

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

# Inside the box



Vicki



Vicki's backplate



User manual

# Technical specifications

**Description:** MClimate Vicki LoRaWAN - Smart Radiator Thermostat  
Developed & Manufactured by MClimate™

**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°C to +60°C

**Material:** ABS + Glass

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

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

## Storage and transportation conditions:

- Ambient temperature : -40°C to +85°C;
- 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

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## 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.mclimate.eu/conformity](http://www.mclimate.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

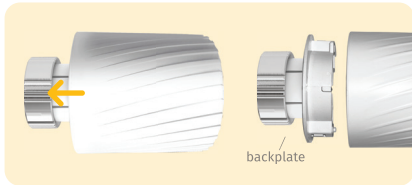
Battery type: 2xAA (1.5VDC each)

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.



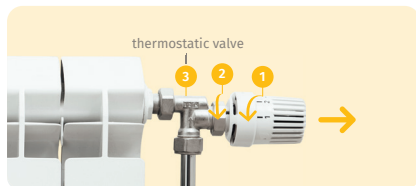
**4** After successfully inserting the batteries and closing the metal battery plate, the device will display "Hi".



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

# Installation

## Remove the old thermostatic valve.

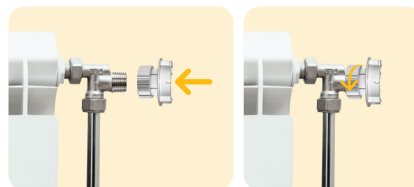


- 1 Set the old thermostatic valve to the highest setting (e.g. 5) 1.
- 2 Unscrew the securing ring 2 and remove the thermostat.

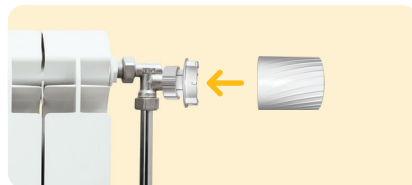


**Warning:** If you already have a thermostatic valve, during installation no water will leak. If you don't have a thermostatic valve, please call a specialist and ask them to replace your valves.

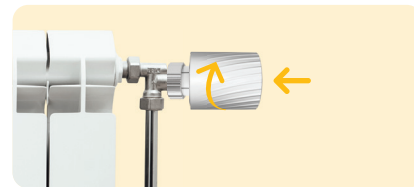
## Mount Vicki on the thermostatic valve



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

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

MClimate\_LoRaWAN\_51177

| Serial Number    | DevEui           | AppEui           | AppKey                        |
|------------------|------------------|------------------|-------------------------------|
| 70B3D25DD30009E1 | 70B3D25DD30009E1 | 70B3D25DD3000000 | 5fc31144af39f4ba428113ad77620 |



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

## Callibration



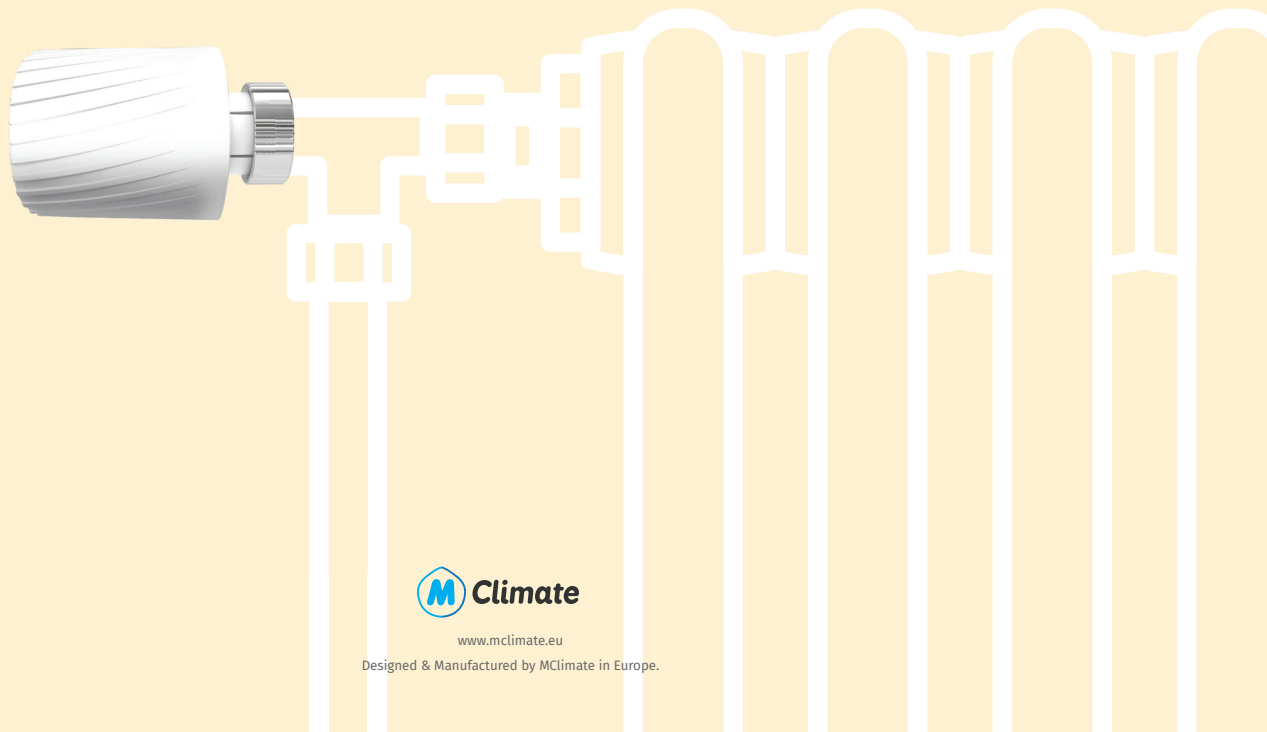
Once you attach Vicki to the radiator, a calibration process will be initiated. The aim of the calibration process is to let Vicki know the kind of valve she is attached to. During calibration, the display will show a loading animation.



Please, do not dismount the device during calibration!



LoRaWAN<sup>®</sup>



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Designed & Manufactured by MClimate in Europe.