Installation guide

LoRaWAN® LoRa Alliance® Member

Scan the QR Code to access Vicki LoRaWAN extended documentation

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, skannaa 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 ernaast.

Hungarian
A Vicki telepítésének 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
Biex issir taf kif jinstallaw Vicki, skennjati l-kodiċi QR jew żur il-link li jmiss lilu.

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 nej.

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, σκανάρετε 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

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

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.

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**

Compatibility

Vicki works with the majority of radiator valves.

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

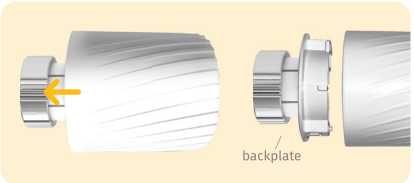
In order to operate Vicki, you will need:
LoRaWAN network
Batteries

Battery type: 2xAA (1.5VDC each)
Device operating voltage: 2.7 - 3.6VDC

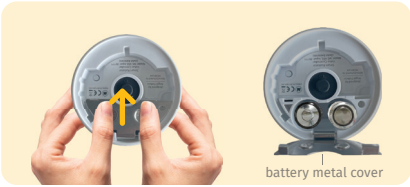
FCC Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
•Reorient or relocate the receiving antenna.
•Increase the separation between the equipment and receiver.
•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
•Consult the dealer or an experienced radio/TV technician for help.
Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
RF Exposure Information
The device has been evaluated to meet general RF exposure requirement.
The device can be used in portable exposure condition, compliance with exposure requirements.

Batteries

Follow the steps below to insert the batteries.

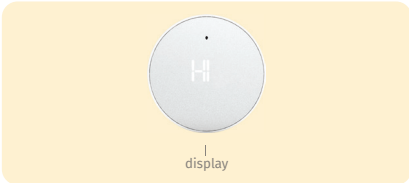


1 Unplug the backplate of Vicki.



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.

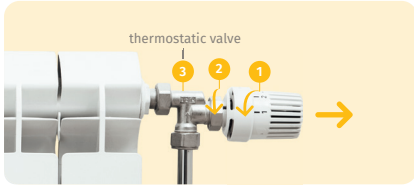


4 After successfully inserting the batteries and closing the metal battery plate, the device will display "Hi".

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

Installation

Remove the old thermostatic valve.

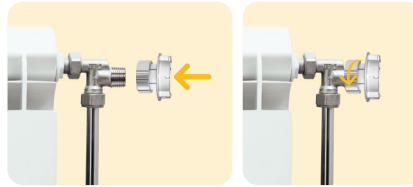


1 Set the old thermostatic valve to the highest setting (e.g. 5)1.

2 Unscrew the securing ring 2 and remove the thermostat.

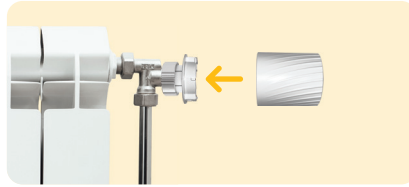
Warning: If you already have a thermostatic valve, during installation no water will leak. If you don't have a thermostatic valve, please call a specialist and ask them to replace your valves.

Mount Vicki on the thermostatic valve



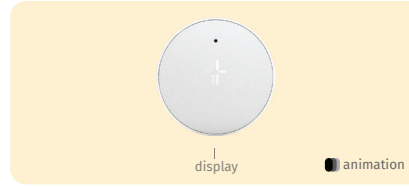
1 Place the backplate of Vicki on the thermostatic valve.

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 succesfully mounting of Vicki the front display must show the callibration 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
G[illegible]	70[illegible]	70B[illegible]	5fc31[illegible]

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!

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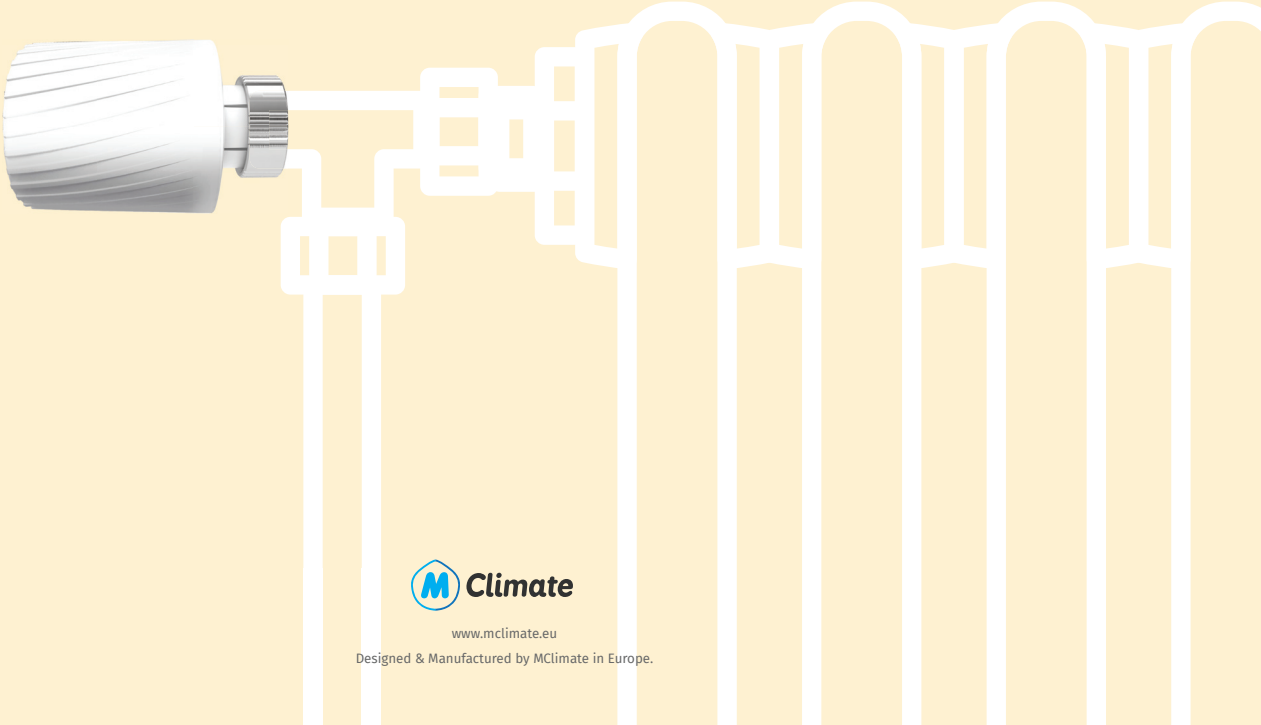

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