Stella R LoRaWAN
Quick start Guide

These operating instructions will guide you through the commissioning and use of your Stella R LoRaWAN and answer all essential questions. Please read these operating instructions carefully, before using your Stella R LoRaWAN. Hand over all documents when passing on to third parties.

Safety Information
- Before installing, removing or repairing your device, allow the radiator to cool down.
- Never carry out repairs to your device yourself and never open your device.
- Do not make any modifications or changes to your device.
- Do not use the device if it is damaged.
- Only use the specified battery type.
- Use your device in a dry and dust-free environment.
- Only use original accessories.

Cleaning
To clean the Stella R LoRaWAN, only use a dry to slightly damp towel. Avoid chemical solvents as they may damage the device.

Disposal
The adjacent symbol indicates that electrical and electronic apparatus no longer required must be disposed of separate from domestic waste in accordance with legal directives. Dispose of the device at a collection point provided by your municipal waste authorities.

Defective or spent batteries must be recycled according to Directive 2006/66/EC. Return batteries and / or the device via the recycling services offered.
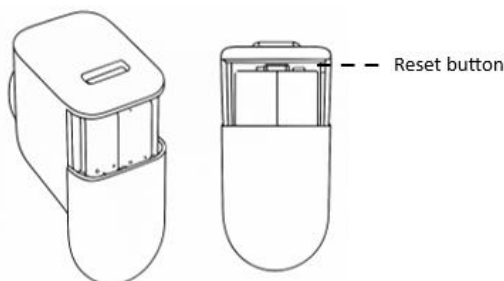
Dispose of the packaging according to type. Dispose of cardboard and carton at waste paper collection points and foil at recyclables collection points. By recycling, material recovery or other forms of recycling, you are making an important contribution to protecting our environment.

Proper Use
Your Stella R LoRaWAN is used to regulate a radiator valve. This makes it possible to regulate the room temperature time-controlled and via an app or webinterface. Your Stella R LoRaWAN moves a radiator valve to control the flow of heat into the radiator. Your Stella R LoRaWAN can be installed on all common radiator valves. Only use your Stella R LoRaWAN indoors.

Scope of Delivery
- 1x Stella R LoRaWAN
- 1x Quick Start Guide
- 3x Adapter (Danfoss RA/RAV/RAVL)
- 1x Screw for adapter
- 2x AA/LR6 batteries

Controls and Display elements

Pairing Process
After inserting the batteries, the device displays 'PA' and the countdown runs from 99-0. The device is in pairing mode. If the device has successfully connect to the Cloud Server, the display will first show '01' and then 'no'. The RF symbol lights up as soon as communication has taken place between the Cloud Server and Stella R LoRaWAN.
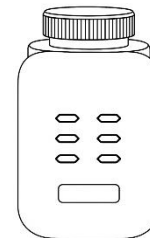
Installation
The product can be mounted on radiator valves that have an M30 x 1.5 mm thread. For installation on valves with other mounting options, metal adapters are available on our Website www.eurotronic.org.

Assembly
After a successful connection, the device goes into mounting mode. The Stella R LoRaWAN can be installed when 'AD' is displayed. After mounting, press the rocker switch upwards and the device starts the adaptation.
NOTE: Only start the adaptation when the device is correctly mounted on a valve.

 Indicates that the adaptation is active, the process may take a moment. After a successful adaptation, the device switches to '21' on the display.

Reset the device
The reset button in the battery compartment must be pressed. After 5 seconds, the display shows 'LE' and the device disconnects. The display then scrolls up from 6-10. At 10 the reset button can be released. After 2 seconds, the device displays PA again and pairing mode is active.

Disassembly mode
The disassembly mode is activated by pressing the reset button twice. The device opens the valve to easily dismantle the controller. The RF communication is not disconnected. The device displays 'AD' again and can be mounted. A new adaptation is required.

Error codes

Problem	Cause	Solution
E1	Valve is not mounted, valve is not detected	• Press the up button to acknowledge and the adaptation restarts • Make sure that your Stella R LoRaWAN is correctly mounted on the radiator • Use the appropriate adapter
E3	Valve is stuck or cannot move the valve	• Press the up button to acknowledge and the adaptation restarts • Make sure that your Stella R LoRaWAN is correctly mounted on the radiator and that the valve is free to move
C1	Pairing Error, or Pairing Timeout	• Press the down button and the error message on the display is cancelled and the pairing mode starts
RF Symbol	Is off if no RF connection	
bt	The batteries are empty	Change the batteries
FE	Window open detection is on	Goes off after 10 minutes

Technical data

Parameter	Value
Supply voltage	2x 1,5V LR6/ AA-Battery
Adjusting force	>125 N
Valve stroke	4,8 mm
Installation	M30x1,5 mm
Protection class	IP 30
Communication	LoRaWAN EU868 (V1.0.4)
Frequency	L-Band 865,0 – 868,0 MHz M-Band 868,0 – 868,6 MHz O-Band 869,4 – 869,65 MHz
Software Class	A

Download Payload Parser

You can download the required payload parser at the following Internet address: https://eurotronic.org/service/downloads

Simplified Declaration of Conformity

CE EUROtronic Technology GmbH hereby declares that your Stella R LoRaWAN complies with all applicable Community provisions of the European Economic Area Directive 2014/53/EU.
The entire text of the EU Declaration of Conformity is available at the following Internet address:
https://eurotronic.org/service/downloads

Manufacturer

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