Stella Pro LoRaWAN
Quick start Guide

These operating instructions will guide you through the commissioning and use of your Stella Pro LoRaWAN and answer all essential questions.
Please read these operating instructions carefully, before using your Stella Pro 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 Pro 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.
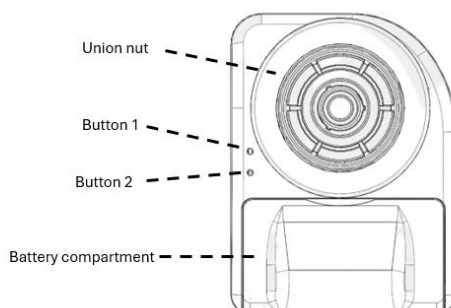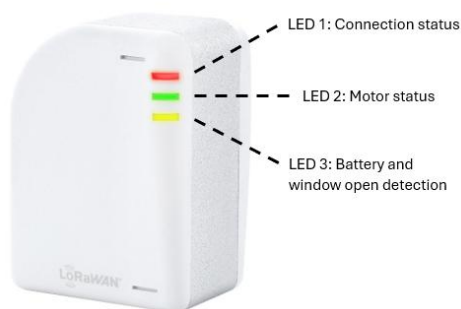
Proper Use
Your Stella Pro LoRaWAN is used to regulate a radiator valve. This makes it possible to regulate the room temperature time-controlled and via an app or webinterface. Your Stella Pro LoRaWAN moves a radiator valve to control the flow of heat into the radiator. Your Stella Pro LoRaWAN can be installed on all common radiator valves. Only use your Stella Pro LoRaWAN indoors.
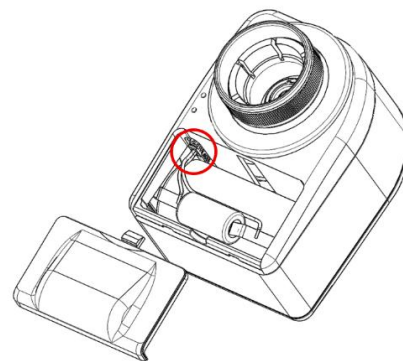
Scope of Delivery
- 1x Stella Pro LoRaWAN
- 1x Quick Start Guide
- 1x Button press tool

Controls and Display elements

LED 1: Connection status
LED 2: Motor status
LED 3: Battery and window open detection

Union nut
Button 1
Button 2
Battery compartment

Inserting and connecting the battery

The Stella Pro LoRaWAN is powered by a lithium battery (3.6 V, C cell). This is equipped with a High Load Connector (HLC). The battery is connected to the plug in the battery compartment using the cable provided on the battery.
Please ensure that the connection is correct before the device gets into use.

Pairing Process
After inserting the battery, LED 1 flashes green quickly. The device is in pairing mode.
When the device has successfully registered to the cloud server, LED 1 lights up green.

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 switches to mounting mode. The Stella Pro LoRaWAN can be mounted when LED 2 is slowly flashing green. After installation, press button 2 for 3 seconds. LED 2 flashes green quickly during adaptation.
NOTE: Only start the adaptation when the device is correctly mounted on a valve. Adaptation is successfully completed when LED 2 does not light up red.

Battery Replacement
When LED 3 lights up red, press button 2 for 5 seconds until LED 3 starts flashing red. This resets the battery status. Then replace the battery. **Important: You must strictly follow this sequence.**

After replacing the battery, the device must be re-adapted using button 2.

Reset the device
To reset, press button 1 for 10 seconds until all 3 LEDs light up red. LED 1 then flashes green again quickly and the device is in pairing mode again.

Display and button explanation
1. Connection status LED 1
Flashes green slowly: The device is not in pairing mode and has no connection.
Flashes green quickly: The device is in pairing mode.
Lights up green: If the RF communication is active.
LED off: RF communication is not available.
Flashes red quickly: Pairing error.
Flashes orange slowly: Reset is in process.

2. Motor status LED 2
Flashes green slowly: Waiting for button confirmation and the adaptation to start (ADAP-Mode).
Flashes green quickly: Adaptation is in process.
Flashes red: The device has a motor error (E1/E3).
LED off: Adaptation is complete, LED 2 is switched off if the following states are not affected →
Lights up green: The device is in position mode (Valve-Mode).
Flashes orange quickly: The device is in heating mode (self-regulation).

3. Other status LED 3
Lights up red: Battery is almost empty.
Flashes red quickly: Battery is replaced and the battery status is updated.
Flashes green slowly: Window open detection active.
LED off: No status is active.

4. Buttons
Button 1: Reset 10 seconds.
Button 2: In ADAP-Mode, press for 3 seconds to start the adaptation.
Button 2: When LED3 lights up red, press for 3 seconds to set the battery status to 100%.

5. Display the status of the LEDs
To display the status of the LEDs, press button 1 or 2 short.

Error codes

Problem	Cause	Solution
LED 2 flashes red (E1/E3)	• Valve is not mounted, valve is not detected • Valve is stuck or cannot move the valve	• Press button 2 for 3 seconds to restart the adaption • Make sure that your Stella Pro LoRaWAN is correctly mounted on the radiator • Use the appropriate adapter
LED 1 flashes red quickly	Pairing Error, or Pairing Timeout	Press button 1 to restart the connection process
LED 1 off	Is off if no RF connection	
LED 3 lights up red	The battery is empty	Change the battery
LED 3 flashes green slowly	Window open detection is on	Goes off after 10 minutes

Technical data

Parameter	Value
Supply voltage	3,6 V Lithium C-Zelle
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 Pro 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
Eurotronic Technology GmbH
Südweg 1
36396 Steinau-Ulmbach
Germany
www.eurotronic.org