

OPERATING MANUAL

1. DESCRIPTION

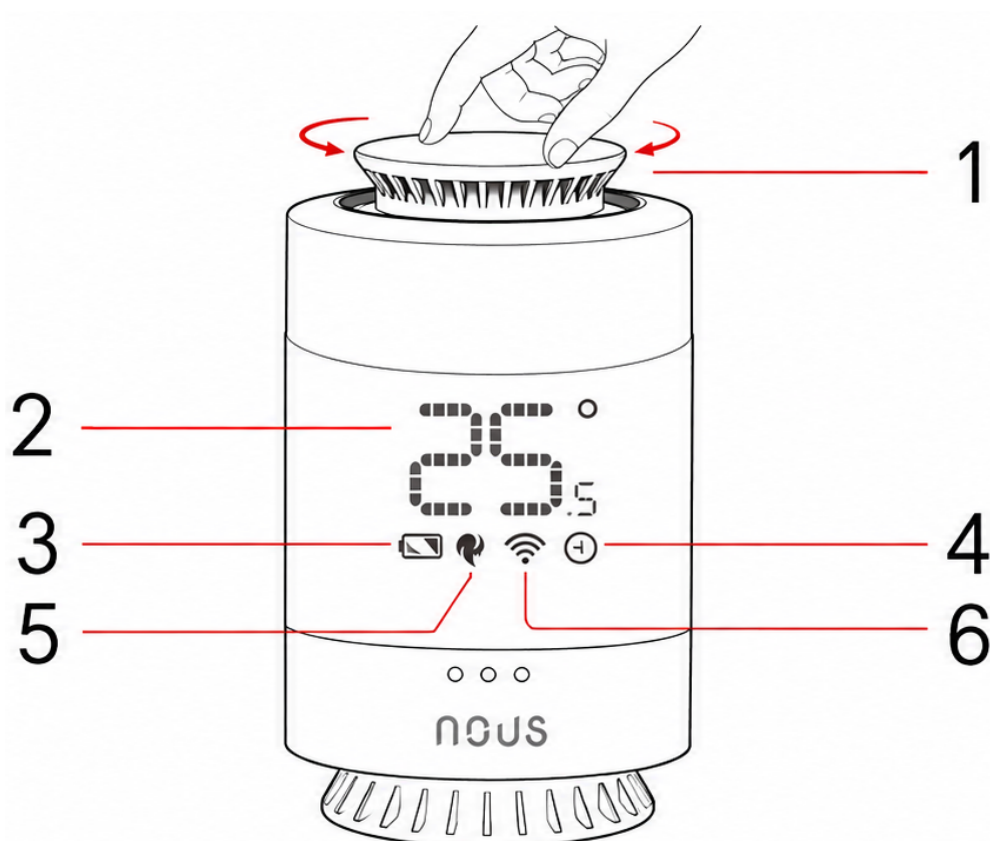
NOUS H1Z ZigBee Smart Thermostatic Radiator Valve (TRV) is a wireless smart radiator thermostat that operates via the Zigbee protocol using the NOUS app. The device provides automatic digital room temperature control with an accuracy of up to 0.5°C and supports integration with voice assistants such as Amazon Alexa and Google Assistant.

It replaces a standard mechanical radiator valve, regulating the flow of the heating medium automatically. It can be controlled remotely via smartphone or locally (on the thermostat body) and features an LED display for viewing settings.

A Zigbee gateway is strictly required!

Attention!

ZHA is currently in the development phase, and this product is not yet supported. If you need to pair with Home Assistant, please use Zigbee2MQTT. Pairing via ZHA will be available soon.



Nº	Description
1	Key lock / code match / Button to change mode. Rotate to change temperature
2	Temperature shows (LED display)
3	Low battery indicator
4	Programmable mode
5	Heat output
6	Wireless

To reverse the LED display: set the device to the "OF" state and press the rotary plate 5 times continuously (note that the "°" and "0.5°" symbols will not display).

2. TECHNICAL CHARACTERISTICS

Network: ZigBee 3.0

Network Protocol: IEEE 802.15.4

Frequency range: 2.400 - 2.480 GHz

Max. Transmit Power: 10 dBm

Working Range: 30m open area

Battery: 2*AA Battery (Batteries are not included)

Battery Life: 1 year

Temperature setting range: 5°C~30°C

Temperature setting accuracy: 0.5°C

Working Temperature: 0°C~50°C

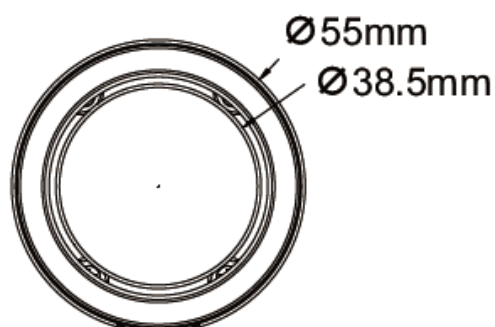
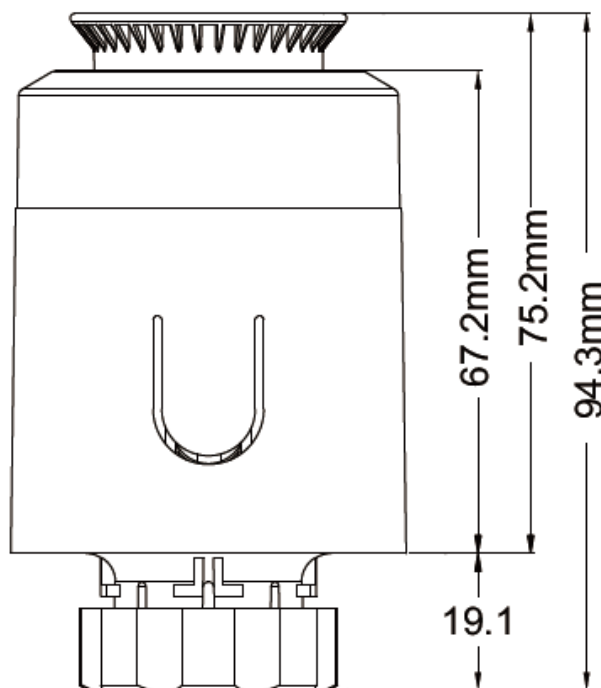
Working Humidity: <95%RH

Protection rating: IP21

Connection: M30x1.5mm

Adapter: Danfoss 1/2 valve (RA), Caleffi (1/2 valve), Giacomini (1/2 valve, short plunger)

Dimension: 94*55mm



3. SAFETY AND PRECAUTIONARY MEASURES

- Please read this manual carefully.
- Use the product within the temperature and humidity limits specified in the technical data sheet.
- Do not install the product near heat sources such as radiators, etc.
- Do not allow the device to fall or be subject to mechanical stress.
- Do not use chemically active or abrasive detergents to clean the product. Use a damp flannel cloth instead.
- Do not exceed the specified power rating. This may result in a short circuit and electric shock.
- Do not disassemble the product yourself - diagnostics and repairs of the device should only be carried out at a certified service center.

4. CONNECTION

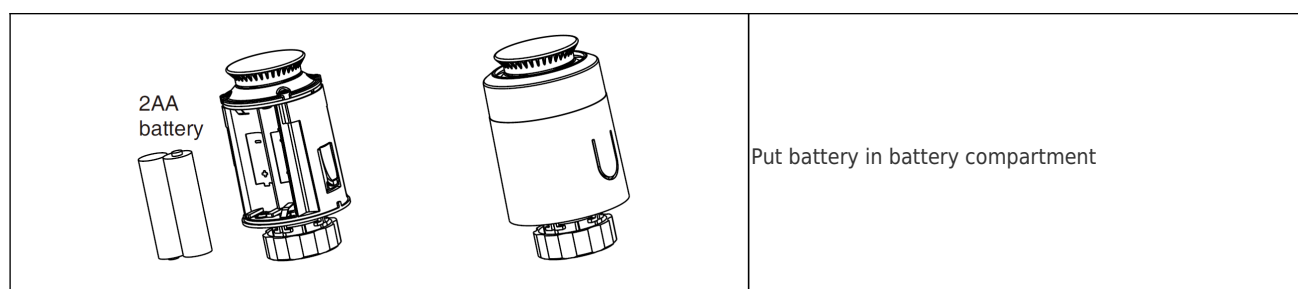
To connect the Nous device, you need a smartphone based on the Android or iOS mobile operating system with the Nous Smart Home application installed. This mobile application is free and available for download from Play Market and App Store. The QR code for the application is given below:

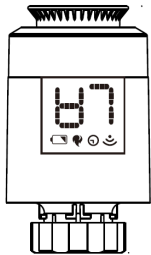
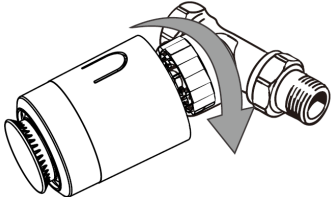
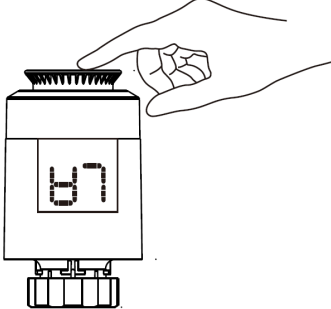
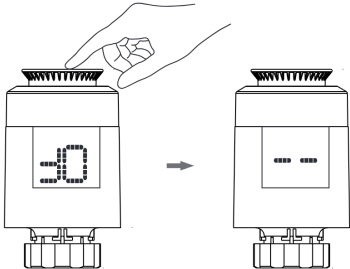


Scan the QR code or or download it **directly**

Importantly: you will need a Nous E1, Nous E7, Nous E15 or other Tuya compatible ZigBee gateway/hub

5. TRV INSTALLATION

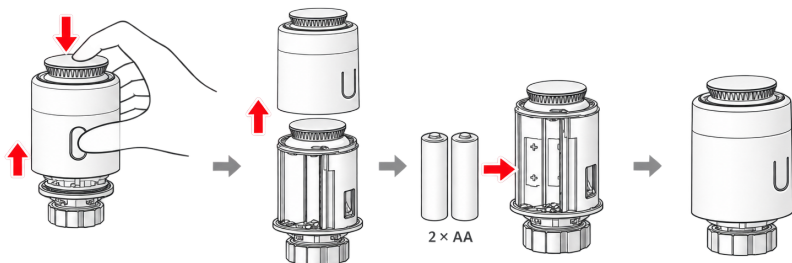
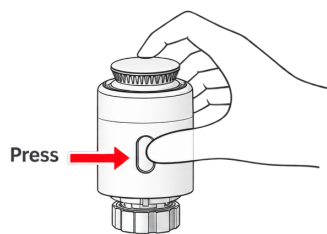


	Display show "LA" flashing
	Once valve needle is flush with the base
	Install TRV with M30*1.5 screw thread Interface of valve. Tighten the copper ring
	Press button on rotary plate lightly, it would flash "LA" TRV will match valve stroke, if match successfully, will active initial setting.
	Rotate to the left (decrease temperature) until it turns off, then long-press the button (for 5 sec). After this, The device will then enter pairing mode.

Schematic diagram of battery installation



Do not pull
rotary plate!



Batteries are not included.