

LoRaWAN® Thermostatic Radiator Valve



Actuator



Features

The NodOn LoRaWAN® thermostatic valve head is particularly suited to smart energy management in large spaces. Its LoRaWAN®-compatible radio technology enables it to regulate heating over a very long wireless range, up to several kilometres.

Energy savings



Programming* heating time slots or creating automated scenarios based on occupancy to reduce energy consumption

Automatic open window detection, frost protection and anti-corrosion protection



The NodOn TRV regulates temperature autonomously and economically

Compatibility



Compatible with LoRaWAN® networks

Installation without construction works



Compatible with most radiators and easy to install

Long range



The LoRaWAN® protocol and LPWAN networks guarantee extremely long wireless range

Manual or automatic setting



Manual adjustment of the setpoint possible at any time via the toggle switch on the thermostatic valve head

Technical specifications

Power supply: 2 x 1,5 V AA/LR6
Threaded connectors: M30 x 1.5 mm
Control Range: 8-28°C
Control Range: RA, RAV, RAVL (supplied)
RF Protocol:
LoRaWAN® EU868 (V1.0.4)
Radio frequency range:
Band L 865,0-868,0 MHz
Band M 868,0-868,6 MHz
Band O 869,4-869,65 MHz
Duty cycle: 1% per hour
RF power max: +10dBm
Signal range: >6 km (direct field, SF9)
Category: 2
Motor force: >125 N
Valve stroke: 4.8 mm
Protection rating: IP20
Environment / Working Temperature:
0 to 40°C
Dimensions: 50 x 85 x 71 mm
Weight: 180 g (batteries included)
Autonomy: about 5 years

LoRaWAN® information

LoRaWAN version: v1.0.4
Software class: A
Join method: OTAA

ADR support

Spreading factor : SF7 to SF12
Payload Parser : support.
nodon.fr/support/solutions/articles/150000214325-tete-de-vanne-thermostatique-lorawan-trv-8-1-00

Approvals & certifications

EN 60730-1
EN 60730-2-9
EN 300 328
EN 301 489-1



The LoRaWAN® thermostatic valve head only works with a LoRaWAN® gateway or operator.



Renovation



Automatic control and remote management of buildings

Comfort



Automatic heating shut-off if the window is open

Energy savings

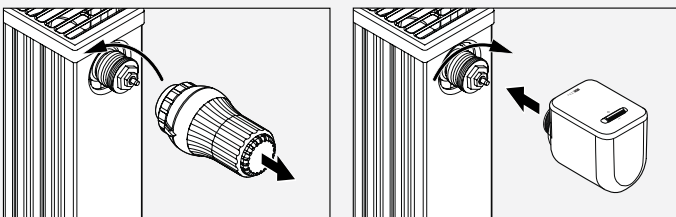


Building coverage for centralised heating management

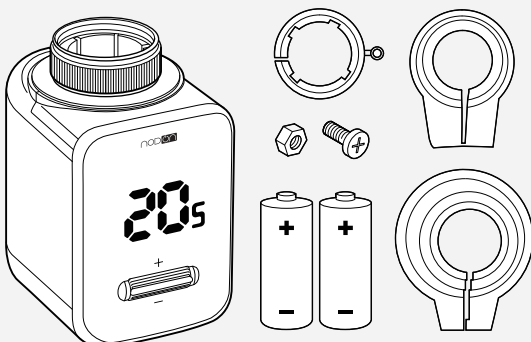


LoRaWAN® network for controlling and optimising heating on a large scale

Installation example



Content



Dimensions



Reference

TRV-8-1-00
EAN: 3700313926437