



Thermostatic Radiator Valve



ETRV-M28 / ETRV-M30

Ouick Guide

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Ver. 1.1 Release date: VII 2024 Soft: v3.5

Producer:

Engo Controls spz o.o. sp. k. Rolna 4 St. 43-262 Kobielice Poland

www.engocontrols.com

Technical specifications

Power supply	2xAA battery
Communication	Wireless with ZigBee compatibile controllers (868 MHz + ZigBee)
Thread size	M30 x 1.5 / M28 x 1.5
IP Protection class	IP30
Dimension [mm]	Ф50 х 81

Introduction

The wireless valve head is used for controlling radiator heating. It is an excellent replacement for a traditional manual thermostatic valve head. For it to function properly, pairing with a master controller is necessary. Up to six wireless valve heads can be paired with a single controller within the same room. Two-way communication between the devices occurs every few minutes via radio signals. Based on the collected data, the controller modulates the valve head's opening. The temperature measured by the controller ensures even heating throughout the entire room. By using an internet gateway, the set (valve head + controller) can be controlled via the ENGO Smart application.

Product features



Wireless communication with the master controller



Automatic calibration



Exceptionally quiet



plug&play

Product Compliance

This product complies with the following EU Directives: 2014/53/EU i 2011/65/EU.

Safety Information:

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Installation must be carried out by a qualified person in accordance with national and EU regulations.

Installation:

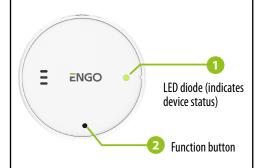
Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for non-compliance with the instructions.



WARNING:

For the entire installation, there may be additional protection requirements, which the installer is responsible for (e.g., installation of an additional differential pressure overflow valve).

User interface



Compatibility with Radiator Valves

PEASE NOTE: If there are discrepancies in dimensions, please contact us or the installer to consider replacing the valves to ensure compatibility with the valve head.



Measure the thread diameter. Choose the valve head according to the valve size: For a thread diameter of 30mm (M30) or 28mm (M28).



Measure the pin height. The pin height should be between 10-15mm in the open position.

Instalation of radiator head



Remove the cover as shown in the illustration



The LED will indicate the software version (e.g., v3.5 flashes 3 times green and 5 times red).



Insert the batteries according to the correct polarity.



Wait until the LED light is continuously green.



Reattach the cover as shown in the illustration.



Screw the valve head onto the radiator valve.

The installation on a Danfoss RA valve

ENGO

To start the adaptation process press the button once

once or wait 3 minutes, then the adaptation will start

automatically. When the adaptation is correct - the LED will turn off.

When installing the valve head on a Danfoss RA valve (see diagram nearby), you must use an M30 thread adapter.





INFORMATION:

If installing the valve head on a Danfoss RA valve, please contact customer support.



ATTENTION:

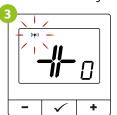
If an adaptation error occurs with the valve insert, the LED will flash alternately green/red every 3 seconds. Check if the valve head is properly installed. You can immediately retry the adaptation by pressing the button once.

Synchronization with head

An internet gateway is not mandatory to synchronize thermostat with head. Make sure head is installed and adapted to valve insert (see head manual). If thermostat is connected to a wireless control box or relay module, synchronization with head cannot be activated.



After successful adaptation process, press&hold head button for 3 seconds.
The LED will start flashing blue.



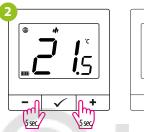
Release buttons, SYNC function will be active (synchronization with head).



Thermostat will indicate how many heads are synchronized.



The devices are synchronized and ready to work.



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 $\label{eq:holdsimultaneously-and+buttons} Hold simultaneously-and+buttons on thermostat until the "SY" function appears.$



After successful synchronization, LED diode will indicate blue light for 10 seconds.

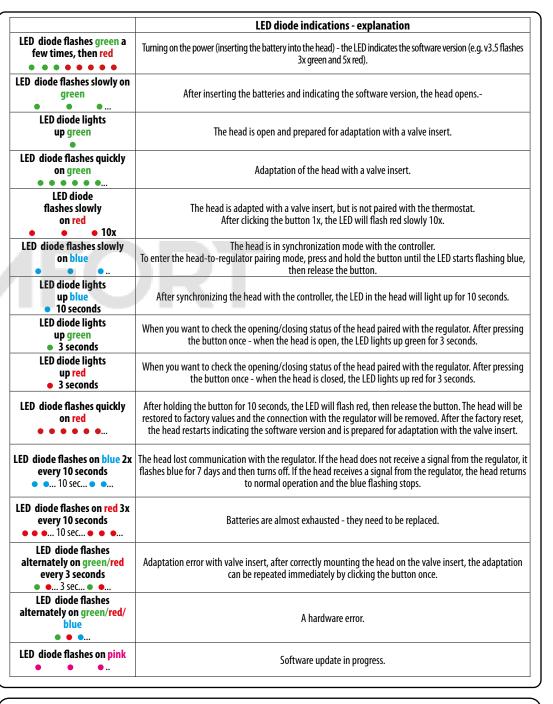


"END" message will appear after successful synchronization.



ATTENTION:

The synchronization should be performed for each head separately. One thermostat can control up to 6 heads within one room.



Factory Reset

To RESET the head to factory settings, hold the button until the LED flashes red, then release the button. The head will restart, restore factory default values and the connection with the regulator will be removed. The head must be re-adapted with the valve insert.

