

Heating controllers

Vexve AM20-W



- Heating controller operated by a wireless room unit
- Suitable for controlling both radiator and floor heating systems as well as constant temperature
- Thanks to the patented indoor temperature based regulation system, no separate curves need to be set
- 'Eco' function for easy energy saving at the press of a button
- Control wheel for easy temperature adjustment (centigrade)
- Clear, illuminated, graphical LCD display
- Easy installation without special tools

Properties:

- automatic radio connection
- clock and weekly calendar
- weekly programming for weekdays and weekends
- valvesensing function (1 x week)
- absence mode for holiday periods or intermittent use
- adjustable minimum and maximum values for supply water
- strength of the radio connection shown in clear percentages
- alarms for sensor or communication malfunctions, shown on the LCD display
- battery replacement alarm on LCD display
- internal memory ensures settings are retained during battery replacement

Technical specifications

Room unit with an LCD display and temperature measurement

- wireless data transmission at 868 MHz radio frequency
- three AA alkaline batteries with a useful life of 2–3 years
- protection class IP21, ready for wall-mounting

Motor unit, 24 VAC, 140 S / 90 degrees

- protection class IP41
- manual operation switch and mechanical position indication on the front plate

External power supply, 230 VAC, 50 Hz / 18 VAC, 200mA

- 1.5-metre wire, DC-plug connection to the motor unit

Antenna unit with 868 MHz transmission frequency

- 1.5-metre wire, can be wall-mounted, RJ11 connection to the motor unit

Supply water temperature sensor, KTY type

- 1-metre wire, RJ12 connection to motor unit, pipe ties supplied

Connection adapters for valves

- Vexve AM series and Termomix valves

The device meets the following environmental requirements and standards:

- Transport temperature: -20...+60 °C
- Humidity: 0–100 % RH, non-condensing conditions
- RoHs 2002/95/EC
- CE marking 93/68/EEC
- EMC directive 2004/108/EEC
- LVD directive 2006/95/EC
- EN 60730-1:2000, general requirements for control equipment for household use
- EN 60730-2-9:2002, special requirements for heating controllers

In addition, the room unit meets the following requirements:

- EN 300-220-1, ERM (electromagnetic compatibility and radio spectrum matters)
- EN 301-489-1, ECM (electromagnetic compatibility requirements)

Heating controllers

Vexve AM10



Easy to use and can be installed by non-professionals. Easy installation on all valves.
Reacts to changes in outdoor temperature to maintain the desired room temperature.
Equipped with minimum and maximum supply water temperature limiters and anti-freeze protection.
Generates significant energy savings, paying for itself within a year.
Room unit AM10 RB, available as an accessory, can be used to easily select the desired room temperature.

Properties:

- Heating graphs stepless 1-9
- Stepless parallel displacement ($\pm 10\text{ }^{\circ}\text{C}$)
- Stepless control of supply water minimum temperature (+15–35 $^{\circ}\text{C}$)
- Stepless control of supply water maximum temperature (+45–95 $^{\circ}\text{C}$)
- Manual operation, e.g. during power cuts

Includes:

- AM10 controller
- External power supply, 230 VAC, 50 Hz / 18 VAC, 200 mA
- Exterior sensor, with 15-metre wire
- Supply water sensor, with 1-metre wire
- Connection adapter (see chart on page 4)

Heating controllers

Vexve AM CTR



The system is ideal for maintaining a constant heating supply water temperature in floor heating and air-conditioning applications. The supply water temperature is easy to control with the remote control unit. The controller is easy to install for all mixing and diverting valves.

Properties:

- Stepless supply water temperature control: 10–80 °C
- Manual operation, e.g., during power cuts

Includes:

- Controller
- Remote control unit with 15-metre control wire
- External power supply: 230 VAC, 50 Hz / 18 VAC, 200 mA
- Supply water sensor with 1-metre wire
- Connection adapters

Technical specifications

- Controller type: 3-pole controller with microprocessor
- Voltage: 230 VAC, 50/60Hz
- Power requirement: 3 VA
- Torque: 5 Nm
- Turning angle: 90°
- Two LED lamps for functions display
- Protection class: IP30 for the central unit, IP41 for the motor

The device meets the following environmental requirements and standards:

- Operating temperature: 0...+40 °
- Storage temperature: -20...+60 °
- Transport temperature: -20...+60 °
- Humidity: 0–100 % RH, non-condensing conditions
- RoHs 2002/95/EC
- CE marking 93/68/EEC
- EMC directive 2004/108/EEC
- LVD directive 2006/95/EC
- EN 60730-1:2000, general requirements for control equipment for household use
- EN 60730-2-9:2002, special requirements for heating controllers

Heating controllers

Vexve AM40



The standard heating controller package includes one circuit controller for constant temperature. Includes accessories to controls one heating circuit.

The controller is equipped with connectors for an external motor circuit and for a supply water sensor.

Easy to install following the software's step-by-step instructions

A control relay, e.g. for controlling the loading pump, is provided

Temperatures and basic operations clearly visible on the LCD screen

Accessories are easy to install with quick connectors; external circuit control, wireless circuit-specific room units

Includes:

Controller unit

- Wall mount, DIN rail mount, and panel mount options
- Weekly programming option
- Illuminated LCD screen
- Electrical motor connections for two circuits
- Quick connections for sensors
- Programmable relay, 230 VAC
- External power supply, 230 VAC, 50 Hz / 18 VAC, 200 mA
- External sensor with 15-metre wire
- Supply water sensor with 1-metre wire

Motor unit

- 24 VAC, 140 S / 90 degrees, with 1.5-metre connection wire
- Connection adapter (see chart on page 4)
- Valve position display
- Manual operation switch

Technical specifications

Controller element AM40

- 52 x 27 mm dot matrix display with LED background light
- 18 VAC supply voltage
- IP21 casing with wall mounting points and DIN-mounting points
- two 24 VAC motor outputs, RJ12
- three sensor inputs, RJ11
- one wireless antenna connection, RJ11
- one external I/O connection, RJ12
- one potential-free relay 10 A, with screw connection
- one relay contact, with spring connector

Supply water temperature sensor (KTY)

- with 3-metre wire RJ11 connector

- with 15-metre wire, RJ11 connector
- wall mount box

Motor unit 24 VAC, 140 S / 90 degrees, RJ12 connector

- protection class IP41
- manual operation switch and mechanical position indication on the front plate

External power supply, 230 VAC, 50 Hz / 18 VAC, 200 mA,

- 1.5-metre wire, DC-plug connection to the controller element

Connection adapters for valves

- Vexve AM range and Termomix valves