



bidirectional wireless actuator

benefits

- battery-less control of radiators
- maintenance-free without additional operating costs
- Connection M30 x 1.5 mm: Easy replacement of existing thermostat heads
- low-noise operation
- EnOcean® wireless technology
- EEP (EnOcean® Equipment Profile): A5-20-1

Application

For wireless and battery-less temperature control in individual rooms. Ideal for heating, ventilation and air conditioning systems. Adjustments are made exclusively via the AFRISOhome app or via a central operating unit.

Description

Wireless, bidirectional radiator actuator AVD 30 based on EnOcean® wireless, with integrated frost protection function. AVD 30 requires no batteries; to generate the energy required for operation and communication between the AFRISOhome gateway it uses the temperature difference between the room and the radiator. An internal energy storage module helps to prevent conditions with insufficient energy supply during operation. If the energy storage module is empty, the actuator opens the radiator valve by 50 % and switches to idle state. Once a sufficient volume of heating water flows, AVD 30 starts automatically and resumes controlling the room temperature. In sparsely heated rooms, it may be necessary to charge the energy storage module via the integrated micro USB port; the actuator triggers a corresponding alarm on time.

AVD 30 controls, for example, the room temperature in a room with radiators. For this purpose, the actual temperature is measured directly at the actuator or with an additional room temperature sensor. The reference temperature can be set, for example, via the AFRISOhome app in combination with an AFRISOhome gateway. The actual temperature and the reference temperature are compared in the AFRISOhome gateway and necessary change requests are transmitted to the actuator at regular intervals. Additional configurable conditions can be included in the temperature control (for example, temperature reduction if a window is open or in the case of absence). This flexible control of the room temperature combines multiple benefits: you can increase living comfort and reduce energy and operating costs.

Technical Specifications

Drive

Valve stroke: 4.5 mm
adjustment time: 4.2 s/mm
Actuating force: max. 80 N

Supply voltage

Energy harvesting (via temperature difference radiator <> room)

Housing

W x H x D: 60 x 63 x 59.5 mm
Degree of protection: IP 30 (EN 60529)

valve connection

M 30 x 1.5 mm

EnOcean® wireless

EEP: A5-20-1
Frequency: 868.3 MHz
Transmission power: max. 10 mW
Range: 10 – 30 m
Range: depending on room arrangement and materials in the building

necessary additional components

- AFRISOhome gateway

Versions

	Part no.
Wireless actuator AVD 30	75008

- in-stock items
- Non-stock items