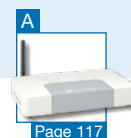


Bidirectional radiator wireless actuator AVD 30



- **Battery-less control of radiators**
- **Maintenance-free without additional operating costs**
- **Connection M30 x 1.5: Easy replacement of existing thermostat heads**
- **Low-noise operation**



5

Application For wireless and battery-less temperature control in individual rooms. Ideal for heating, ventilation and air conditioning systems. AVD 30 is particularly suitable for use in schools and public buildings in which the temperature may only be adjusted by authorised staff. Adjustments are made exclusively via the AFRISOhome app or via a central operating unit. It is advisable to measure the actual temperature via an external room temperature sensor (for example, FTM 20 TF).

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 in the AFRISOhome gateway are compared every 10 minutes and necessary change requests are transmitted to the actuator. 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: Max. 4.5 mm
Adjustment time: 0.24 mm/s
Adjustment 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
Weight: Approx. 225 g
Degree of protection: IP 30 (EN 60529)

Connection

M 30 x 1.5 mm

EnOcean® wireless

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

Necessary additional components

- AFRISOhome Gateway

i

See operating instructions for detailed information on the range of the EnOcean® wireless module.

DG: L, PG: 4	Part no.	Price €
Bidirectional wireless actuator AVD 30	75008	