

Data Sheet

Danfoss Ally™ Radiator Thermostat

Application



Compatible

The Danfoss Ally™ Radiator Thermostat is a connected radiator thermostat for the residential use.

The Danfoss Ally $^{\mathbb{M}}$ Radiator Thermostat is battery powered, compact and easy to operate with a manual hand wheel and single button. The Danfoss Ally $^{\mathbb{M}}$ Radiator Thermostat is a Zigbee Certified Product, compatible with the Danfoss Ally $^{\mathbb{M}}$ Gateway and with the third party certified systems using a Zigbee technology.

The Danfoss Ally™ Radiator Thermostat is easy to install, in just 30 seconds! The adapters are available for all thermostatic valves manufactured by Danfoss and most other radiator valve manufacturers.

Features:

- · Programming and control via a ZigBee gateway
- · Energy savings
- Easy to install
- · Easy to operate
- The Manual mode
- The Open-window function
- The PID Accurate temperature control
- The Adaptive learning
- · Easy to read LCD display
- Display rotation -180 degrees

- Min./max. temp. range
- The Child lock function
- The Frost protection function
- The Valve exercise function
- Backlit display
- Battery life time up to 2 years
- · The Visual warning of low battery
- Software upgradeable

| Product | Language | Adapters (included) | Code No. |
|-----------------------------------|----------------------------|-----------------------------|----------|
| Danfoss Ally™ Radiator Thermostat | EN, DE, DA, FR, IT, PL, CS | RA, M30 | 014G2420 |
| Danfoss Ally™ Radiator Thermostat | EN, DE, DA, FR, IT, PL, CS | RA, M30, RAV, RAVAL | 014G2460 |
| Danfoss Ally™ Radiator Thermostat | IT | RA, M30, Caleffi, Giacomini | 014G2461 |

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Specifications

| Thermostat type | Programmable electronic radiator valve controller | |
|----------------------------------|---|--|
| Recommended use | Residential (pollution degree 2) | |
| Actuator | Electromechanical | |
| Display | LCD with white backlight | |
| Software classification | A | |
| Control | PID | |
| Power supply | 2 x 1.5 V alkaline AA batteries | |
| Power consumption | 3 mW in standby, 1.2 W when active | |
| Trasmission Frequency / Power | 2,4 GHz / < 40 mW | |
| Battery life | Up to 2 years | |
| Low battery signal | Battery icon will flash in display. | |
| Ambient temperature range | 0 to 40 °C | |
| Transportation temperature range | -20 to 65 °C | |
| Maximum water temperature | 90 °C | |
| Temperature setting range | 5 to 35 ℃ | |
| Clock accuracy | +/- 10 min/year | |
| Spindle movement | Linear, up to 4.5 mm, max. 2 mm on valve (1 mm/s) | |
| Noise level | <30 dBA | |
| Safety classification | Type 1 | |
| Open-window function | Activated at temperature decrease or by ZigBee command | |
| Weight (incl. batteries) | 198 g (with RA adapter) | |
| IP class | 20 (not to be used in hazardous installations or in places where it will be exposed to water) | |
| Integrations* | Partner API, Google Assistant, Amazon Alexa | |
| Approvals, markings etc. | C E zigbee erinfied scroduct | |

^{*} Requires Danfoss Ally™ Gateway



Accessories

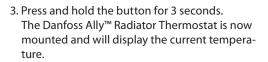
| Adapter type | Code no. | Adapter | Valve |
|---|----------|---------|-------|
| For Danfoss RA valves | 014G0251 | | |
| For valves M30 x 1,5 (K) | 014G0252 | | |
| For Danfoss RAV valves | 01450250 | | 34 |
| For Danfoss RAVL valves | 014G0250 | | |
| For Danfoss RTD valves | 014G0253 | | |
| For M28 valves: - MMA - Herz - Comap | 014G0264 | | |
| For Orkli valves | 014G0257 | | |
| For Caleffi and Giacomini valves | 014G0263 | | |
| (Both adaptors supplied) | 330203 | | |

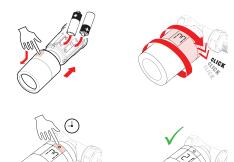
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Mechanical Installation

- 1. Start by mounting the appropriate adapter. Identify the needed adapter from the table on pg 3.
- Insert the batteries, then mount the thermostat onto the adapter by turning it until you hear a click.





Measuring the room temperature

The Danfoss Ally™ Radiator Thermostat is measuring the temperature with multiple built-in sensors to ensure accurate control. Based on these readings the room temperature is calculated for an area approx. 20 cm in front of the display. This allows the Danfoss Ally™ Radiator Thermostat to control the actual room temperature very accurately.

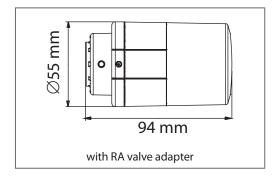
Be aware that sources of cold or heat, e.g. fireplace, direct sun or draft, might affect the function of the Danfoss Ally™ Radiator Thermostat.

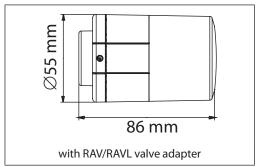


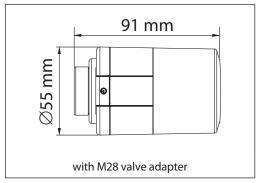
Note! The displayed temperature is always the set temperature, not the actual room temperature.

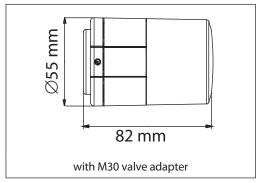


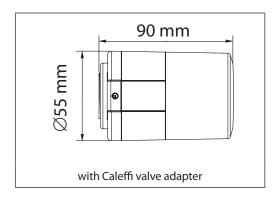
Dimensions













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