

## Danfoss 015G3090

# Danfoss React RA Click Thermostatic Sensor 015G3090 User Manual

Model: 015G3090

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Danfoss React RA Click Thermostatic Sensor, model 015G3090. Designed for efficient temperature control in heating systems, this sensor combines modern design with reliable performance and ease of use. Please read these instructions carefully before installation and use to ensure optimal performance and safety.

## 2. PRODUCT OVERVIEW

The Danfoss React RA Click Thermostatic Sensor features a fluid-filled thermostatic bellows and a built-in sensor for precise temperature regulation. Its design ensures a quick response time and consistent performance. The modern aesthetic integrates seamlessly into various environments.



Figure 1: Front view of the Danfoss React RA Click Thermostatic Sensor, showing the Danfoss logo and temperature scale.

### Key Features:

- **Fluid-Filled Thermostatic Bellows:** Ensures accurate and responsive temperature sensing.
- **Built-in Sensor:** Integrated for compact design and efficient operation.
- **RA Click Connection:** Unique mechanism for quick, tool-free installation on Danfoss RA type thermostatic valves.
- **Tactile Feedback:** Provides a distinct click for every 0.5°C change in temperature setting.
- **Temperature Range Limitation:** Allows setting minimum, maximum, or both temperature limits.
- **Optimized Temperature Scale:** Clear markings with 3°C distance between scale values for easy reading.
- **Frost Protection:** Includes a setting to prevent freezing in unoccupied spaces.

## 3. SETUP AND INSTALLATION

The Danfoss React RA Click sensor is designed for quick and tool-free installation on thermostatic valves with a Danfoss RA type connection. The unique 'Click' connection ensures a secure and audible confirmation of proper attachment.



Figure 2: Side view of the Danfoss React RA Click Thermostatic Sensor, highlighting the connection area.

### Installation Steps:

1. **Prepare the Valve:** Ensure the thermostatic valve body (Danfoss RA type) is clean and free from debris.
2. **Align the Sensor:** Position the React RA Click sensor over the valve body. The sensor has a specific orientation; align the internal mechanism with the valve pin.
3. **Attach the Sensor:** Push the sensor firmly onto the valve body. You will hear an audible 'click' when the sensor is correctly and securely attached. This 'click' confirms the tool-free snap connection is engaged.
4. **Verify Connection:** Gently try to pull the sensor off the valve. If it remains firmly attached, the installation is complete.

*Note:* No tools are required for this installation process. The 'Click' mechanism is designed for ease and reliability.

## 4. OPERATING INSTRUCTIONS

The Danfoss React RA Click sensor allows for manual temperature adjustment to suit your comfort needs. The temperature range is typically between 7°C and 28°C.

### Adjusting Temperature:

- **Rotate the Dial:** Turn the outer ring of the sensor clockwise to decrease the temperature and counter-clockwise to increase it.
- **Tactile Feedback:** Each rotation that changes the temperature by 0.5°C will provide a distinct tactile 'click', allowing for precise adjustments without needing to constantly look at the scale.
- **Temperature Scale:** The numbers on the sensor correspond to approximate room temperatures. The asterisk (\*) symbol typically indicates a frost protection setting (around 7°C).

Limiting Temperature Range:

The sensor allows you to set minimum, maximum, or both temperature limits to prevent unauthorized or accidental adjustments outside a desired range. Consult the specific instructions provided with your valve or sensor packaging for details on how to engage these limiters, as the mechanism can vary slightly.

5. MAINTENANCE

The Danfoss React RA Click Thermostatic Sensor is designed for long-term, reliable operation with minimal maintenance.

Cleaning:

- Wipe the exterior of the sensor with a soft, damp cloth.
- Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the surface or internal components.

General Care:

- Ensure the sensor is not obstructed by curtains, furniture, or other objects that could interfere with accurate temperature sensing.
- Avoid exposing the sensor to direct sunlight or strong drafts, as this can affect its performance.

6. TROUBLESHOOTING

If you experience issues with your Danfoss React RA Click Thermostatic Sensor, consider the following common troubleshooting steps:

- **Incorrect Room Temperature:** Ensure the sensor is not covered or obstructed. Verify that the desired temperature setting is correctly selected on the dial.
- **No Heat/Constant Heat:** Check if the valve pin is moving freely. Sometimes, a valve pin can become stuck. Gently press the pin on the valve body (with the sensor removed) to ensure it moves.
- **Sensor Not Clicking:** Re-attach the sensor to the valve, ensuring you hear the audible 'click' to confirm proper engagement.
- **Drafts or Direct Sunlight:** External factors like drafts or direct sunlight can influence the sensor's reading. Relocate any obstructions or consider shading the sensor if it's in direct sunlight.

If problems persist after attempting these steps, it is recommended to contact a qualified heating technician or Danfoss customer support for further assistance.

7. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	Danfoss
Model Name	React RA click
Product Dimensions	6.69"D x 7.09"W x 12.2"H
Controller Type	Push Button
Special Feature	Frost Protection
Color	White
Specific Uses For Product	Heating System Control
Temperature Control Type	Manual
Connectivity Technology	RA-Click-Anschluss
Included Components	thermostat
Power Source	Battery Powered
Item Weight	0.16 Kilograms (5.6 ounces)
Material	Metal
Display Type	manual
Control Method	Touch
Connectivity Protocol	RA-Click Connector
Backlight	No
Manufacturer	Danfoss
Volume	1 Liters
Number of pieces	1

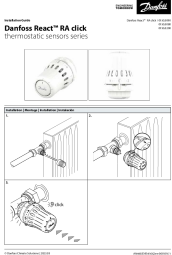
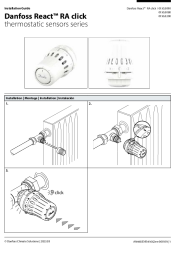
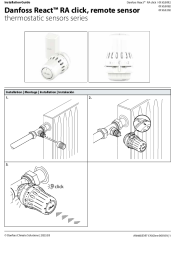
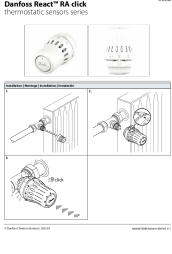
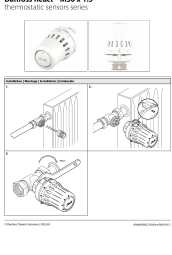
## 8. WARRANTY AND SUPPORT

Danfoss products are manufactured to high-quality standards and are typically covered by a manufacturer's warranty. For specific warranty details, including duration and terms, please refer to the documentation included with your purchase or visit the official Danfoss website.

For technical support, spare parts, or further assistance, please contact Danfoss customer service or your local authorized Danfoss dealer. Contact information can usually be found on the Danfoss website or on your product packaging.

**Online Resources:** For additional information, FAQs, and product updates, visit the official Danfoss website: [www.danfoss.com](http://www.danfoss.com)

Related Documents - 015G3090

	<p><a href="#">Danfoss React RA Click Thermostatic Sensor Installation and Features Guide</a></p> <p>Comprehensive guide to installing, uninstalling, and configuring the Danfoss React RA Click thermostatic radiator valve, including temperature limitation and theft protection features.</p>
	<p><a href="#">Danfoss React™ RA click Thermostatic Sensor Installation Guide</a></p> <p>Comprehensive installation guide for the Danfoss React™ RA click thermostatic sensors series, covering installation, uninstallation, temperature limitation (maximum and minimum), theft protection, and blind mark features. Includes model numbers 015G3090, 015G3080, 015G3290.</p>
	<p><a href="#">Danfoss React RA click Thermostatic Sensor Installation Guide</a></p> <p>Official installation guide for the Danfoss React RA click thermostatic sensor series, covering installation, uninstallation, temperature limitation, and theft protection features. Includes model numbers and product details.</p>
	<p><a href="#">Danfoss React RA Click Thermostatic Sensor Installation and User Guide</a></p> <p>Detailed installation, uninstallation, and setup guide for the Danfoss React RA Click thermostatic radiator valve sensor series. Covers remote sensor installation, temperature limitation (max/min), and theft protection features. Includes product codes and model information.</p>
	<p><a href="#">Danfoss React RA Click Thermostatic Sensor Installation Guide</a></p> <p>Comprehensive installation, uninstallation, temperature limitation, theft protection, and shut-off guide for the Danfoss React RA Click thermostatic sensor series. Includes model numbers and accessory codes.</p>
	<p><a href="#">Danfoss React M30 x 1.5 Thermostatic Sensors Installation Guide</a></p> <p>Installation guide for the Danfoss React M30 x 1.5 thermostatic sensors series, covering installation, BIV installation, temperature limitation (maximum and minimum), and theft protection.</p>

