Vaillant 253552

Vaillant VSC 196-C 150 Temperature Sensor User Manual

Model: 253552

1. Introduction

This manual provides essential information for the Vaillant VSC 196-C 150 Temperature Sensor, part number 253552. It is designed to assist qualified personnel with the proper installation, operation, and maintenance of this component within compatible Vaillant heating systems. Please read this manual thoroughly before proceeding with any installation or service.

2. Safety Information

Always observe the following safety precautions to prevent personal injury and damage to equipment:

- Installation and maintenance must only be performed by qualified and authorized technicians.
- Disconnect the main power supply to the heating system before performing any work on the sensor or related components.
- Ensure all electrical connections are secure and comply with local regulations.
- Do not modify the sensor or use it for purposes other than its intended function.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

3. Product Overview

The Vaillant VSC 196-C 150 Temperature Sensor (part number 253552) is a critical component designed for use in Vaillant heating systems, including models such as VSC 126-C 140 and VSC 196-C 150. This sensor accurately measures temperature, providing essential data to the system's control unit for efficient and safe operation. It is a genuine Vaillant spare part, ensuring compatibility and reliability.



Image of the Vaillant VSC 196-C 150 Temperature Sensor, part number 253552. This image shows the physical appearance of the sensor, typically a probe with an electrical connector.

4. Setup and Installation

The temperature sensor is designed for integration into specific Vaillant heating systems. Installation should only be carried out by a qualified heating engineer or technician.

4.1 Pre-Installation Checks

- Verify that the new sensor (part number 253552) is the correct replacement part for your Vaillant heating system model.
- Ensure the heating system is completely powered off and isolated from the main electrical supply.
- Allow the system to cool down to a safe temperature before handling components.

4.2 Installation Steps (General Guidance)

1. Locate the existing temperature sensor within the heating system. Refer to your specific boiler's service manual for exact location.
2. Carefully disconnect the electrical wiring from the old sensor. Note the wiring configuration if necessary.
3. Remove the old sensor from its housing or mounting point. Be aware of any seals or O-rings that may need replacement.
4. Install the new Vaillant temperature sensor (253552) into the designated position. Ensure it is securely seated and any seals are correctly in place to prevent leaks (if applicable).
5. Reconnect the electrical wiring to the new sensor, ensuring correct polarity and secure connections.
6. Once installed, restore power to the heating system and perform a functional test according to the boiler's

service instructions.

5. Operating Principles

The Vaillant VSC 196-C 150 Temperature Sensor functions as a thermistor, changing its electrical resistance in response to temperature variations. This change in resistance is measured by the heating system's control board, which then interprets it as a specific temperature. This temperature data is crucial for the boiler to regulate heating output, maintain desired water temperatures, and ensure safe operation by preventing overheating or freezing.

6. Maintenance

The Vaillant temperature sensor is generally a maintenance-free component. However, periodic checks by a qualified technician during routine boiler servicing are recommended:

- Inspect the sensor and its wiring for any signs of physical damage, corrosion, or loose connections.
- Ensure the sensor is clean and free from debris or scale buildup that could affect its accuracy.
- Verify that the sensor is securely mounted in its position.

If any issues are detected, consult a qualified technician for diagnosis and potential replacement.

7. Troubleshooting

Problems related to a temperature sensor often manifest as error codes on the boiler's display or inconsistent heating performance. If you suspect a sensor malfunction, consider the following:

- **Inaccurate Temperature Readings:** This could indicate a faulty sensor or poor contact with the medium it's measuring.
- **Boiler Not Firing or Overheating:** A malfunctioning sensor might provide incorrect temperature data, leading the boiler's control unit to mismanage heating cycles.
- **Error Codes:** Consult your boiler's specific user or service manual for error codes related to temperature sensors.

For any troubleshooting beyond visual inspection, it is strongly recommended to contact a qualified Vaillant service technician. Do not attempt to repair a faulty sensor; replacement is typically the only solution.

8. Specifications

Attribute	Detail
Manufacturer	Vaillant
Model Number (Item)	253552
Product Dimensions (L x W x H)	16 x 2 x 1 cm
Item Weight	38 g
Style	Modern

9. Warranty and Support

For information regarding the warranty period and terms for the Vaillant VSC 196-C 150 Temperature Sensor (part number 253552), please refer to the documentation provided with your original heating system or contact your authorized Vaillant dealer or installer. Support for this component is typically provided through Vaillant's official service network or certified technicians.

For technical assistance or to locate a certified service provider, please visit the official Vaillant website or contact their customer service department in your region.

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