

Viessmann 5549

Viessmann 5549 Universal Control Panel Instruction Manual

Model: 5549

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Viessmann 5549 Universal Control Panel. Please read this manual thoroughly before use to ensure proper function and longevity of the product.



Image: The Viessmann 5549 Universal Control Panel, featuring four sets of red and green push-buttons with integrated LEDs for feedback. The model number "5549" and "Viessmann" brand logo are visible on the front panel.

PRODUCT OVERVIEW

The Viessmann 5549 is a feedback-capable push-button control panel designed for model railway applications. It features momentary contacts and is suitable for controlling up to four 2-aspect semaphore signals, turnouts (points), or the universal relay Art. 5551. The panel provides real-time feedback on the status of signals, turnouts, or relays via 8 integrated red and green LEDs. Multiple control panels can be connected in series. This unit is specifically designed for magnetic accessories that feature true end-of-travel shutdown via mechanical contacts. The contact load capacity is 2 A.

SETUP

1. Unpacking

- Carefully remove the control panel from its packaging.
- Inspect the unit for any visible damage.
- Ensure all components are present.

2. Mounting

The control panel can be mounted on a control board or integrated into your model railway layout. Use appropriate screws (not included) through the designated mounting holes on the panel. Ensure a stable and secure installation.

3. Electrical Connection

The Viessmann 5549 is designed for use with magnetic accessories that have mechanical end-of-travel shutdown. Connect the control panel to your model railway power supply and the respective magnetic accessories (signals, turnouts, or relays) according to the wiring diagram provided with your specific accessories. The panel's contact load capacity is 2 A. Ensure correct polarity and secure connections to prevent short circuits or damage.

- Connect the common return wire from your power supply to the designated common terminal on the control panel.
- Connect the control wires from your magnetic accessories to the corresponding terminals for red (stop/diverging) and green (go/straight) indications.
- For connecting multiple panels, daisy-chain them using the appropriate terminals.

OPERATING INSTRUCTIONS

The Viessmann 5549 features momentary contact push-buttons and integrated LEDs for status feedback.

1. Basic Operation

- Each control unit on the panel consists of a red button, a green button, and two corresponding LEDs (red and green).
- Pressing the **red button** will activate the associated magnetic accessory to its "stop" or "diverging" position. The red LED will illuminate to indicate this status.
- Pressing the **green button** will activate the associated magnetic accessory to its "go" or "straight" position. The green LED will illuminate to indicate this status.
- The LEDs provide immediate visual feedback on the current state of the connected accessory.

2. Feedback Functionality

The integrated LEDs provide true feedback, meaning they reflect the actual position of the signal, turnout, or relay, not just the last command sent. This requires the connected magnetic accessories to have mechanical end-of-travel shutdown contacts that provide the feedback signal to the control panel.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the surface of the control panel. Do not use abrasive cleaners or solvents, as these may damage the plastic.
- **Connections:** Periodically check all electrical connections to ensure they are secure and free from corrosion. Loose connections can lead to intermittent operation or damage.
- **Storage:** When not in use for extended periods, store the control panel in a dry, dust-free environment away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
LEDs do not illuminate or accessory does not respond.	<ul style="list-style-type: none"> No power supply to the control panel or accessory. Loose or incorrect wiring. Faulty magnetic accessory. Accessory without mechanical end-of-travel shutdown. 	<ul style="list-style-type: none"> Check power supply to the layout and the control panel. Verify all wiring connections are secure and correct according to the accessory's diagram. Test the magnetic accessory independently if possible. Ensure the accessory is compatible with the feedback function of the 5549.
LEDs show incorrect status.	<ul style="list-style-type: none"> Feedback contacts on the accessory are dirty or damaged. Incorrect wiring of feedback lines. 	<ul style="list-style-type: none"> Clean or inspect the feedback contacts on the magnetic accessory. Recheck the wiring for the feedback signals.
Multiple panels not working correctly when daisy-chained.	<ul style="list-style-type: none"> Incorrect daisy-chain wiring. Overload on the power supply. 	<ul style="list-style-type: none"> Review the daisy-chaining instructions for correct connections. Ensure your power supply can handle the combined load of all connected accessories and panels.

SPECIFICATIONS

- **Model Number:** 5549
- **Brand:** Viessmann
- **Type:** Universal Push-Button Control Panel with Feedback
- **Control Capacity:** Four 2-aspect semaphore signals, turnouts, or universal relays (e.g., Art. 5551)
- **Feedback:** 8 integrated LEDs (4 red, 4 green) for real-time status indication
- **Contact Type:** Momentary contact
- **Compatibility:** Magnetic accessories with mechanical end-of-travel shutdown contacts
- **Contact Load Capacity:** 2 A
- **Weight:** Approximately 60 g
- **Application Area:** Indoor
- **Batteries Required:** No
- **Gauge:** All (universal application)
- **Learning Objective:** Development of basic electrical engineering knowledge and problem-solving skills (as per manufacturer's description)

WARRANTY INFORMATION










For warranty details, please refer to the documentation included with your purchase or contact Viessmann customer support. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For further information and product updates, please visit the official Viessmann website.

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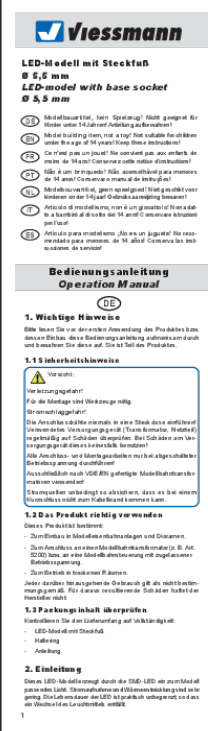
Related Documents - 5549

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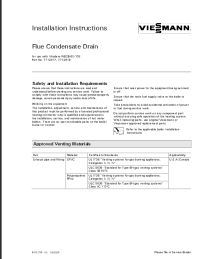
[Viessmann 5550 Universal On-Off Switch Operation Manual](#)

Comprehensive operation manual for the Viessmann 5550 Universal On-Off Switch, detailing its features, applications in model train layouts, connection instructions, and technical specifications. Includes safety guidelines and product usage information.



[Viessmann LED Model with Base Socket Ø 5.5 mm - Operation Manual](#)

Operation manual for the Viessmann LED model with base socket (Ø 5.5 mm). This guide provides essential information on installation, connection, safety precautions, warranty, and technical specifications for model train enthusiasts.



[Viessmann Flue Condensate Drain Installation Guide for Vitodens WB2B-80/105](#)

Official installation instructions and safety requirements for the Viessmann Flue Condensate Drain, compatible with Vitodens WB2B-80/105 boilers. Includes approved venting materials and installation steps.