

Jung TR UD LS 231 WW

Jung TR UD LS 231 WW Universal Thermostat

User Manual

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your Jung TR UD LS 231 WW Universal Thermostat. Please read this manual carefully before installation and use to ensure proper function and safety. Keep this manual for future reference.

The Jung TR UD LS 231 WW is a universal room thermostat designed for precise measurement and regulation of room temperature. It features a clear backlit display and supports both heating and cooling functions.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury or damage to the device:

- Installation and electrical connections must only be performed by a qualified electrician in accordance with local regulations and standards.
- Before any installation or maintenance work, ensure the power supply to the thermostat is disconnected at the main circuit breaker.
- Do not expose the thermostat to moisture, extreme temperatures, or direct sunlight.
- Do not open or attempt to repair the device yourself. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the thermostat to prevent overheating.

3. PRODUCT OVERVIEW

The Jung TR UD LS 231 WW thermostat features a user-friendly design with a clear digital display and intuitive controls.



Figure 3.1: Jung TR UD LS 231 WW Universal Thermostat Front View

The image displays the Jung TR UD LS 231 WW Universal Thermostat. It features a white frame and a clear digital display. The display shows a temperature reading of 21.0°C, indicates 'AUTO' mode, and the current time as 14:31. Below the main display, there are four control buttons: a mode button (represented by a square with a line), a minus button, a plus button, and a checkmark button. A small flame icon is visible on the right side of the display, indicating heating status. The overall design is clean and functional.

Display Elements:

- **Temperature Display:** Shows the current room temperature and setpoint.
- **Mode Indicator:** Displays the current operating mode (e.g., AUTO, Manual).
- **Time Display:** Shows the current time.
- **Heating/Cooling Indicator:** Icons indicating active heating (flame) or cooling.

Control Buttons:

- **Mode Button (Square with line):** Used to cycle through operating modes.
- **Minus (-) Button:** Decreases temperature setpoint or navigates menu options.
- **Plus (+) Button:** Increases temperature setpoint or navigates menu options.
- **Confirm (Checkmark) Button:** Confirms selections or enters settings.

4. INSTALLATION

The thermostat is designed for mounting in a standard flush-mounted box according to DIN 49 073. It requires a 230 V AC power supply and an N conductor.

4.1 Wiring

Warning: Ensure power is disconnected before wiring. Incorrect wiring can cause damage to the device or pose an electrical hazard.

- Connect the 230 V AC power supply to the designated terminals. An N conductor is required.

- Connect the two-wire heating/cooling system to the relay output terminals. The relay is potential-free.
- Refer to the wiring diagram provided with the product packaging for specific terminal assignments.

4.2 Mounting

- After wiring, carefully place the thermostat into the flush-mounted box.
- Secure the thermostat using screws. This model uses screw fixing and does not require fixing claws.
- Attach the front cover and frame securely.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-On

Once power is restored, the thermostat display will illuminate. It may show default settings or prompt for initial setup (e.g., time, date).

5.2 Setting the Temperature

- In normal operating mode, use the **Plus (+)** and **Minus (-)** buttons to adjust the desired temperature setpoint.
- The temperature can be set in 0.5 °C increments within the range of 5 °C to 30 °C.
- The display will show the new setpoint temporarily, then revert to the current room temperature.

5.3 Changing Operating Modes

Press the **Mode Button (Square with line)** to cycle through available operating modes, such as:

- **AUTO:** Operates according to the programmed schedule.
- **Manual:** Maintains a constant temperature set by the user.
- **OFF/Standby:** Turns off heating/cooling functions.

Confirm your selection with the **Confirm (Checkmark)** button if prompted.

6. PROGRAMMING MODES

The Jung TR UD LS 231 WW thermostat offers programmable features to optimize energy consumption and comfort. Specific programming steps may vary; refer to the detailed instructions in the full product manual for advanced settings.

6.1 Setting Time and Date

Typically, this is the first step after installation or a power outage. Access the time/date setting menu by pressing and holding the **Mode Button** or a combination of buttons as indicated on the display.

- Use the **Plus (+)** and **Minus (-)** buttons to adjust values.
- Use the **Mode Button** or **Confirm (Checkmark)** button to move between fields (hours, minutes, day, month, year).
- Confirm all settings to save.

6.2 Creating a Weekly Schedule

The thermostat allows you to set different temperature setpoints for various times of the day and days of the week.

- Enter the programming menu (consult the full manual for specific button sequences).
- Select the day or group of days you wish to program.
- Define time periods and their corresponding desired temperatures.
- Save the schedule.

7. MAINTENANCE

7.1 Cleaning

To maintain the appearance and functionality of your thermostat:

- Wipe the surface with a soft, damp cloth.
- Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the plastic and display.
- Ensure no liquid enters the device.

7.2 Power Reserve

The thermostat has an internal lithium cell providing a power reserve of approximately 10 years. This ensures that time and program settings are retained during short power outages. If the display remains blank after a prolonged power outage, the internal battery may need professional replacement.

8. TROUBLESHOOTING

If you experience issues with your thermostat, consult the table below for common problems and solutions. For problems not listed or if solutions do not resolve the issue, contact qualified service personnel.

Problem	Possible Cause	Solution
Display is blank.	No power supply; internal battery depleted.	Check circuit breaker. If power is present, internal battery may need replacement (professional service recommended).
Thermostat not controlling heating/cooling.	Incorrect wiring; wrong operating mode; setpoint not reached.	Verify wiring (power off first). Check operating mode (e.g., AUTO, Manual). Adjust setpoint to be above/below current room temperature.
Temperature reading seems inaccurate.	Thermostat located near heat source/draft; sensor obstruction.	Ensure thermostat is not exposed to direct drafts, sunlight, or heat sources. Clean any dust from sensor openings.

9. SPECIFICATIONS

Feature	Specification
Model Number	TR UD LS 231 WW
Brand	Jung
Power Supply	230 V AC

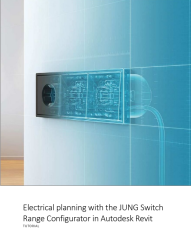
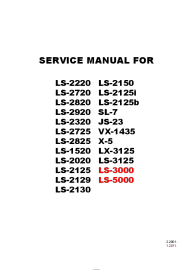
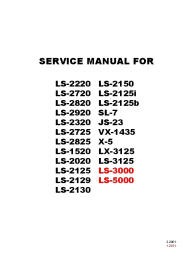
Feature	Specification
Power Consumption	Approx. 1.2 W
Switching Current	10 mA to 10 (4) A at 230 V AC
Temperature Setting Range	+5 °C to +30 °C
Temperature Display Resolution	0.1 °C
Differential Value	0.5 K (Adjustable)
Output	Relay (Normally Closed), Potential-free
Connection Type	Two-wire, N conductor required
Power Reserve	Approx. 10 years (Lithium cell)
Mounting	Screw fixing, for flush-mounted box (DIN 49 073)
Material	Thermoplastic
Color	Alpine White
Dimensions (Package)	9.6 x 8.4 x 8.2 cm
Weight (Item)	200 g
Special Features	Backlit display, Cooling function, Smartphone control support (via external system), Remote control (optional)

10. WARRANTY AND SUPPORT

Jung products are manufactured to high quality standards. For information regarding warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Jung website.

For technical support, spare parts, or service inquiries, please contact your local Jung distributor or authorized service center. Please have your model number (TR UD LS 231 WW) and purchase details ready when contacting support.

Spare parts availability information is currently unavailable through general product listings. Please inquire directly with Jung or an authorized dealer.

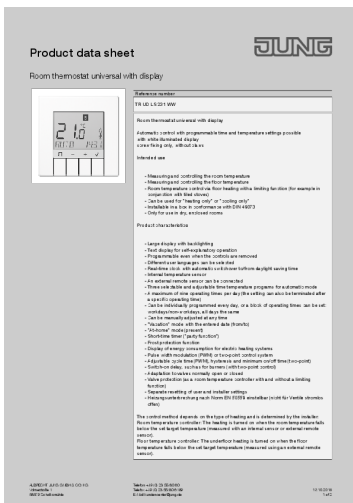
	JUNG FTR231 Floor Thermostat Operating Instructions Comprehensive operating instructions for the JUNG FTR231 floor thermostat, detailing installation, functional description, operation, technical specifications, and warranty information for electric underfloor heating systems.
	Universal Room Temperature Controller with Display - User and Installation Guide This document provides comprehensive operating and installation instructions for the JUNG Universal Room Temperature Controller with Display, Art. No.: TR UD .. 231 .. It details safety instructions, product features, operation modes, programming, installation, and troubleshooting.
	JUNG HOME Room Thermostat Display: Operating Instructions and Technical Details Comprehensive operating instructions and technical specifications for the JUNG HOME room thermostat display (Art. no. BT..1791..), covering installation, features, functions, and troubleshooting.
	Electrical Planning with JUNG Switch Range Configurator in Autodesk Revit A comprehensive tutorial guide on utilizing the JUNG Switch Range Configurator within Autodesk Revit for efficient electrical planning. Covers BIM object creation, product configuration, symbol management, and troubleshooting.
	Brother Sewing Machine Service Manual: LS-2220 and other models Comprehensive service manual for Brother LS-2220, LS-2720 Zigzag Stitch Sewing Machines, covering general information, maintenance, adjustments, and troubleshooting. Includes detailed instructions for various components and settings.
	Brother Sewing Machine Service Manual: Model Adjustments and Maintenance Comprehensive service manual for Brother sewing machines, covering detailed adjustments for models like LS-2220, LS-2720, LS-3000, and more, including needle swing, loop lift, and tension settings.



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JUNG Product data sheet bemco ext co uk ALBRECHT GMBH CO KG Volmestraße 1 58579 Schalksmühle Telefon 49 0 23 55 80 60 Telefax 6189 E Mail kundencenter@jung de Room thermostat universal with display Reference number TR UD LS 231 WW Automatic control programmable time and temperature settings en TRUDLS231WW ad knx ||| Product data sheet Room thermostat universal with display Reference number **TR UD LS 231 WW** Room thermostat universal with display Automatic control with programmable time and temperature settings possible with white illuminated display screw fixing only, without claws Intended use - Measuring and co... lang:en **score:32** filesize: 207.32 K page_count: 2 document date: 2016-10-19



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Product data sheet Room thermostat universal with display Reference number **TR UD**

LS 231 WW Room thermostat universal with display Automatic control with

programmable time and temperature settings possible with white illuminator

screw fixing only, without claws Delivery capacity is ensured un...

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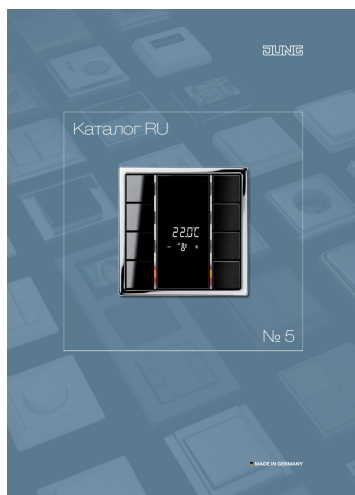
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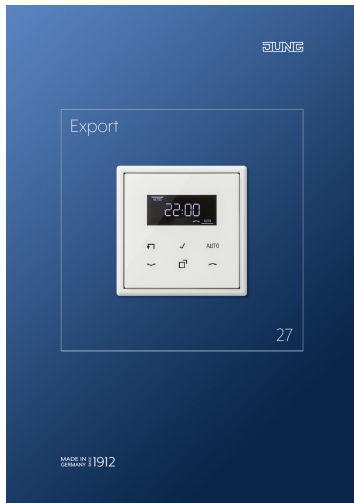


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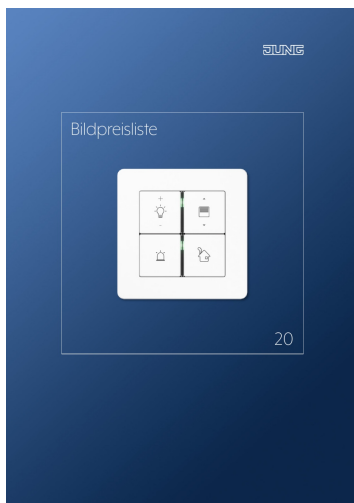


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