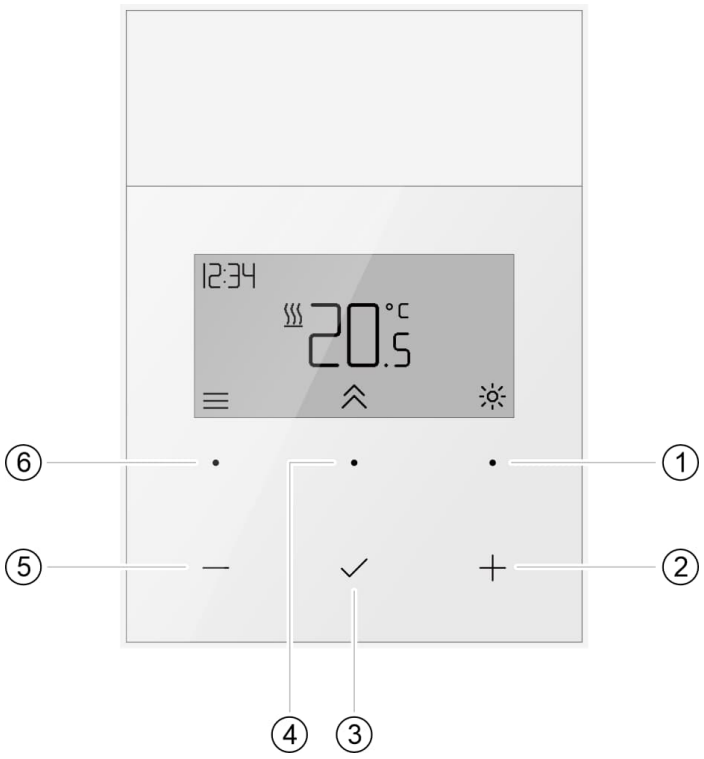
SIEMENS

RDL101..

en Quick operating instructions

The RDL101.. programmable room thermostat provides comfortable and energy-efficient room temperature control. The intuitive user interface, scheduler functions, and clear display make daily operation simple and convenient.



Button	Description
1	Changes operating mode / Navigate.
2	Increases the temperature or value.
3	Confirms selection.
4	Temperature boost / Navigate
5	Decreases the temperature or value.
6	Menu / Navigate

Note: Touch any button to wake up the thermostat.

Screen icons

Icon	Description	Icon	Description
	COMFORT mode active		Keypad lock is active
ECO	Energy-saving mode active		EXPERTS menu
	Frost protection active		Heating boost is active.
	Weekly scheduler active		Optimum start function is active.
	Heating output ON		Optimum stop function is active.
	Replace batteries soon		Open window contact is active.
	Replace batteries immediately		Energy-saving setback input is active.
	Device fault detected		

Select operating modes

Press the button ● to cycle through the available modes.

Icon	Description
	AUTO: Automatically follows the configured schedule. Configure switching times in menu ☰ > SCHEDULER.
	COMFORT: Maintains COMFORT temperature setpoint. Recommended during occupancy.
ECO	**ECO**: Maintains a reduced temperature to save energy. Ideal during absence or at night.
	Protection: Provides frost protection. Heating starts automatically if room temperature falls below 5 °C (factory setting).

Change temporary temperature setpoint

Adjust the temperature setpoint temporarily in COMFORT or AUTO mode:
- Press + to increase the setpoint.
- Press – to decrease the setpoint.
- The new value is saved automatically after a few seconds.
- In AUTO mode, the adjustment is temporary and remains active until the next scheduled switching point.
- In COMFORT mode, the adjusted setpoint remains active until the setpoint or operating mode is changed.

Change permanent temperature setpoint

Configure the setpoints used in COMFORT, ECO and ABSENCE modes:
- Press menu ☰.
- Select SETPOINTS.
- Select COMFORT, ECO or ABSENCE.
- Adjust the temperature with + / –.
- Confirm with ✓.

Note: The frost protection temperature is fixed at 5 °C (factory setting) and can be enabled or disabled by the installer.

Set temperature boost

Use temperature boost for rapid heating.
- Press the boost ⩓ button.
- Select boost duration (30 minutes to 2 h).
- Confirm with ✓.

The thermostat temporarily increases the temperature by 2 °C above the COMFORT setpoint and automatically returns to the previous operating mode when the timer expires.

Menu overview

Menu	Function
SETPOINTS	Sets COMFORT, ECO and ABSENCE temperatures.
SCHEDULER	Configures weekly schedule for AUTO mode.
ABSENCE	Schedule holiday or absence periods
INFORMATION	Device information, user documentation and Quick Config app download
SETTINGS	Date/time, language and installer parameters

Note: The thermostat is supplied with a preconfigured weekly schedule which can be modified in SCHEDULER.

Set absence mode

Use absence mode during holidays or extended periods away from home.
- Press menu ☰.
- Select ABSENCE.
- Set start and end dates.
- Confirm with ✓.

The thermostat maintains the predefined absence temperature and automatically resumes normal operation after the configured end date.

Energy saving tips

- Use AUTO mode with weekly schedules.
- Use ECO mode or ABSENCE mode when away.
- Keep doors and windows closed while heating.
- Do not cover the thermostat with curtains or furniture.
- Avoid installing heat-generating equipment near the thermostat.

Battery replacement

The thermostat uses **2 × AA (LR6) alkaline batteries**.
- Replace the batteries when the low-battery symbol appears on the display.
- Use **alkaline batteries only**.
- Dispose of used batteries as per local regulations.
- To open the battery compartment, carefully lift the battery cover using a small screwdriver, paper clip, or similar tool. Insert the tool at the location marked by the icon on the left side of the thermostat housing.

Lock/Unlock buttons

The thermostat supports "keypad lock" (P26) to prevent unintended operation.
- Lock: Activated via parameter P26.
- Unlock: Use one of the following methods or enter the PIN when prompted.
  - Unlock keypad or menu: Press and hold the ☰ button for more than 10 seconds.
  - Unlock EXPERTS menu: Press and hold the ✓ button for more than 10 seconds.
  - PIN protection: If P72 is enabled, enter the PIN to unlock the thermostat.

For detailed operating instructions, commissioning information and latest documentation, scan the QR code or visit www.siemens.com/bt/download.

en Commissioning instructions

EXPERTS menu

Use the EXPERTS menu to configure advanced settings, view diagnostic information, and perform commissioning functions.

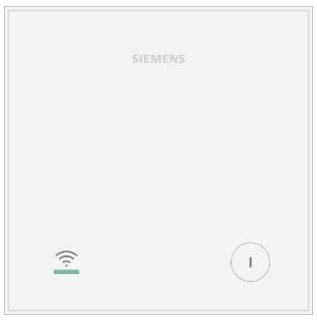
- **Enter EXPERTS menu**
  1. Press menu ☰ > SETTINGS ⚙ > EXPERTS 👤.
  2. Enter the PIN if enabled (P72).
  3. Select the parameter with ∧ or ∨.
  4. Press ✓ to enter parameter editing mode.

- **Exit EXPERTS menu**
  1. Press ⮌ to exit.

Parameters

No.	Description	Factory setting	Setting range in the thermostat
P09	Control behavior	TPI SLOW	ON/OFF 1.0 K ON/OFF 0.3 K TPI FAST TPI MEDIUM TPI SLOW TPI ADAPTIVE
P10	Maximum start time (optimum start)	0.0 H	0.5...24 H
P11	Maximum stop time (optimum stop)	0.0 H	0.5...6 H
P20	Display	ROOM TEMP	ROOM TEMP SETPOINT
P21	Show time	ON	ON / OFF
P22	Measured value adjustment	0 K	-5...+5 K
P23	Screen saver	ON	ON / OFF
P24	Touch sound	ON	ON / OFF
P25	Dark theme	OFF	ON / OFF
P26	Keypad	UNLOCK	UNLOCK LOCK LOCK MENU LOCK EXPERTS
P30	Maximum room temperature setpoint for heating	35 °C	P31...40 °C
P31	Minimum room temperature setpoint for heating	5 °C	5 °C…P30
P36	Frost protection	ON	ON = Frost protection at 5 °C / OFF
P40	Configuration input X1	---	--- ROOM TEMP RAD PANL TEMP WINDOW CONT SETBACK ECO
P41	Signal type input X1	NRML OPEN NTC 3K	NRML OPEN NRML CLOSED NTC 3K NTC 10K
P42	Maximum radiant panel temperature	28 °C	10...50 °C
P51	Kick function - for valve or circulating pump	OFF	ON / OFF
P71	Enable near field communication (NFC)	ON	ON / OFF
P72	PIN protection	OFF	ON / OFF
P73	PIN	000	000...999
P74	Device pairing (RF version only)	OFF	OFF / TRIGGER = Activate pairing mode
P75	Reset parameter	OFF	OFF / TRIGGER = Initiate parameter reset

Wireless Version (RDL101RF.ST)



Receiver button (RDL101RF.ST only)

The receiver override button ⏻ performs the following functions:

- Brief press: Override the relay output. The LED flashes during override.
- Press and hold for 5 s: Initiate RF pairing with the thermostat.
- Press and hold for 10 s: Perform the receiver factory reset.

Receiver LEDs

LED	Status
Green	Normal operation
Orange	Receiver not paired
Orange/Green alternating	Pairing active
Flashing red	RF communication fault
Red	Internal receiver fault

Re-pair the thermostat with the receiver

1. Set **P74 = TRIGGER**.
2. Reset the receiver (press and hold button for **10 s**).
3. Press and hold the receiver button for **5 s** to start pairing.
4. Wait until the receiver LED indicates a successful connection.

RF COM: Temporary communication losses may occur and are normally restored automatically. Re-pair only if the fault persists.

Diagnostic Parameters

No.	Description	Setting range in the thermostat
D01	Fault	--- = No fault SENSOR INBUILT = Built-in sensor faulty SENSOR X1 = Sensor X1 defective RF COM = RF communication fault
D02	Input X1 state	--- DEACTIVATED DI ACTIVATED DI PRESENT TEMP = Sensor value available NO SERVICE
D04	Test mode to check output Q1 Output returns automatically to RLS after 15 minutes.	FORCED OFF = Forced off FORCED ON = Forced on RELEASE = Release
D06	Signal strength (RF version only)	VERY LOW LOW MEDIUM HIGH
D07	Thermostat software version	-
D08	Thermostat hardware version	-
D09	Receiver software version (RF version only)	-
D10	Receiver hardware version (RF version only)	-

Recommended control behavior (P09) settings:

Setting	Application
ON/OFF 1.0 K	Heat pumps, electric heating with contactors
ON/OFF 0.3 K	General-purpose heating
TPI FAST	Gas boilers, fast thermal actuators, electric heaters
TPI MEDIUM	Radiators, thermal actuators
TPI SLOW	Underfloor heating, oil boilers (Factory setting)
TPI ADAPTIVE	All applications

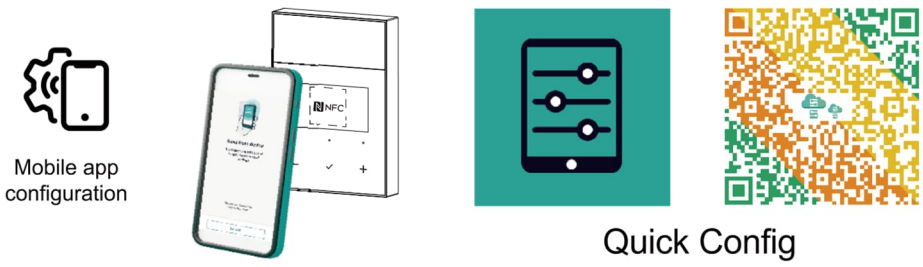
Factory reset

Insert a pin or paper clip into the reset opening on the rear of the thermostat and hold for **more than 10 seconds**.
Note: Factory reset restores all parameters to their default values and clears existing RF pairing information (RDL101RF.ST only)

Quick Config App

Use **Siemens Quick Config** (NFC-enabled smartphone required) for:

- Configure parameters
- Configure schedules
- Configure absence periods
- Pair RF devices
- Perform point-to-point test
- Run diagnostics
- Generate reports



Status and fault messages

Display	Description
🪫 ▭	Replace batteries
SENSOR	Internal sensor fault
RF COM *(RF version only)*	RF communication fault
RANGE	Temperature outside operating range

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