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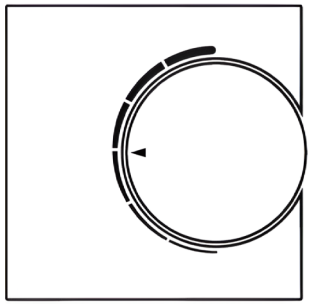

RT20 (24V)
ROOM THERMOSTAT
QUICK GUIDE

MULTI-LANGUAGE
MANUAL

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Introduction

The RT20 is a fully electronic room thermostat that offers considerable advantages over conventional, mechanical counterparts. This thermostat is very simple to use with its standard rotating dial and, with its state-of-the-art electronics, it can offer you unparalleled ease of control for all manner of heating systems. The RT20's features, which are described in detail below, ensure that you can control your heating system in a precise, easy and energy-saving way.

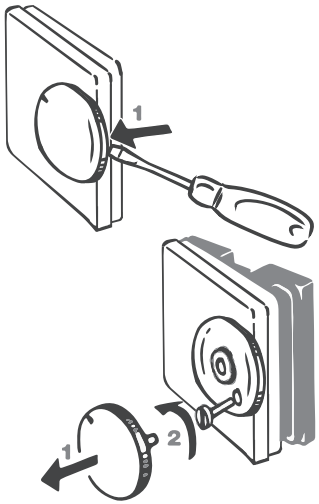
Product Compliance

This product complies with the essential requirements and other relevant provisions of Directives GPSR (EU) 2023/988, EMC 2014/30/EU, LVD 2014/35/EU, RoHS (EU) 2017/2102 and (EU) 2015/863, REACH 253 SVHC. The full text of the EU Declaration of Conformity is available at the following internet address: www.saluslegal.com

Safety Information

Use in accordance with national and EU regulations. Use the device as intended, keeping it in dry condition. Product for indoor use only. Installation must be carried out by a qualified person in accordance with national and EU regulations.

Mounting



1. Carefully pull off the adjuster wheel with a flat screwdriver.
2. Remove the screw from under the adjuster wheel.
3. Open the housing by removing the housing cover.
4. Now, using the screws supplied, screw the base plate firmly to the wall or the flush-mounted socket.

Technical characteristics

Valve protection function

To ensure that valves remain movable and ready for use even when they are unused for considerable periods – e.g. over the summer –the RT20 includes a valve protection function. Briefly once a week, even when there is no requirement for any heat, the valve actuators open the valves that they control.

Temperature reduction

Timed and demand-oriented heating control are amongst the best ways of managing heating energy in an economical way. The RT20 has an integrated temperature reduction function which enables you to automatically reduce the set temperature by 4K with no need for any costly add-on installation on the boiler controller. This 'night reduction' can be activated by an external signal, e.g. time control from a terminal strip, or using a standard external timer.

Installation

The RT20 room thermostat is designed as an electronic temperature controller for the electrical fine adjustment of hot-water-based heating systems, and is used for controlling electro-thermal valve actuators or other electrical devices. It is vitally important that the maximum switching current specified in the technical specifications should not be exceeded! We are not liable for any form of improper use.

This equipment must only be installed by an authorized, qualified engineer, and only in accordance with the wiring diagram. Installation must also be in accordance with the latest VDE regulations as well as your electricity supplier's regulations. The system must be in a de-energized state whilst installation is carried out, and all safety instructions must be followed to the letter.

Find a position for the thermostat where it is not covered by curtains, furniture or anything else. The controller must not be installed too close to any heat source (lights, stove, direct sunlight, etc.), nor should it be installed in a position where it will be exposed to draughts. The controller must be installed in a suitable location in order for room temperature to be monitored accurately and accordingly regulated with precision.

Important: Before opening the housing, the thermostat must be disconnected from its power supply.

Connection

RT20-24V must be wired in accordance with the wiring terminal description below:

RT20 - 24V	
Terminal	**Description**
NSB	Lead for temperature reduction
L2	Neutral
L1	24V AC power supply
SL	24V AC Switched live (able to control up to 5 actuators, max 2W each)

Jumper settings

To save energy, when NSB is active, the jumper on the PCB is used to decrease the temperature by 2 or 4 degrees, depending on the jumper connection.

Jumper settings			
	Function	**2**	**4**
NSB	Temperature reduction	●●○	○●●

Operation

The RT20 electronic room thermostat is used for regulating the temperature in dry, enclosed rooms with a normal environment and maximum humidity of 95% (non-condensing).

It is extremely simple and convenient to set the desired room temperature using the rotary knob. This electronic control system ensures that the set room temperature is maintained virtually without fluctuation and, when required, automatically activates a reduction in temperature.

Never use anything other than a soft, dry cloth to clean the unit. Never use any cleaning agents containing solvents or any sharp objects to clean the unit.

Technical specifications	
Operating voltage	24V
Output	24V
Temperature range	5°C - 35°C
Max. load	1A
Span	±0.5°C (1K)
Dimensions	80 /80/ 18.5 mm
Night setback (NSB)	2/4°C adjustable
Protection class	IP30
Actuator	Max. 5 pc (each 2W)
Valve Protection	active (7 day interval)
Operating temperature	0°C - 50°C
Storage temperature	-20°C - 60°C
Control pollution	Normal