



RSLRF



DIGITAL WIRELESS ROOM THERMOSTAT

Touch-sensitive controls with backlit LED display

Overview

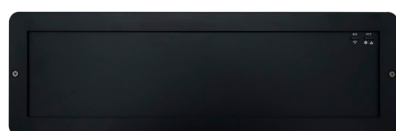
Main features

- Measurement and transmission of setpoint temperature and room temperature to the control unit
- Wireless LoRa communication
- Display of temperatures, battery indicator and various settings values

Applications

- Hydraulic underfloor heating/cooling

Sold separately:



Central control unit



Multi-protocol gateway



Customisable mobile application

Benefits

- **Modern and sober design**
- **Two capacitive buttons** for direct access to all settings
- **Set the temperature** with a simple touch
- **Integrated room temperature sensor**, temperature value displayed to the tenth
- **Multifunctional indicator light**: display of radio connection status and diagnostics, consideration of a heating request
- **Extended sleep mode** to reduce energy consumption and optimize battery life

Ecosystem

The standard installation includes:

- A control unit with 12 thermoelectric actuator outputs; Connection of actuators on manifold to underfloor heating frames
- Combination of 1 to 12 wireless room thermostats per central control unit for local control of your installation
- System management via downloadable UFH CTRL mobile application
- Optional: remote control via multiprotocol gateway

We offer other products compatible with the standard system. For more information, please contact us.

Functional specifications

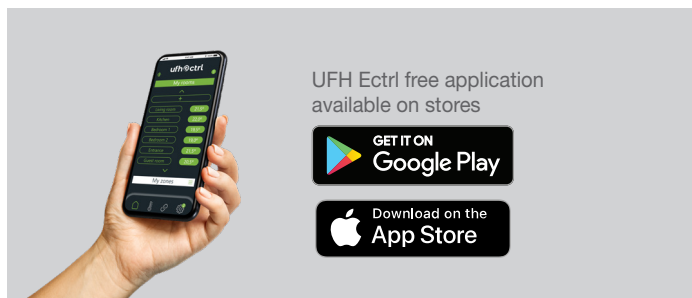
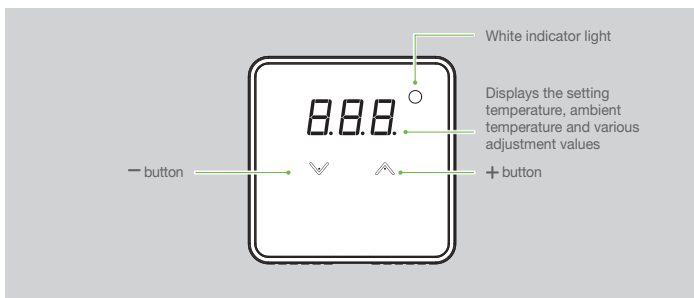
Use



Safety	Keypad lock , making unintentional changes impossible
	Limitation of the setpoint temperature adjustment range (min and max limits)
Ambient room temperature display	By awakening the thermostat at the touch of one of the buttons
Setpoint temperature display	Awakening of the product and simple press on the ∨ or ∧ button
Viewing installation details	Viewing of the association between the channels of the central (C1 to C12) and each thermostat. Manually on the thermostats and/or remotely via the application.
For any changes made via the mobile application: reception of the new information and update of the thermostat	

Installation

Wall mounting	Product supplied with 2 wall plugs and 2 screws
Connection to the central control unit	<ul style="list-style-type: none"> - Pairing with the central control unit by simple touch on the thermostat, selection of the central control unit output(s) (channels) assigned by each thermostat via the mobile application. - One thermostat can control up to 12 motor outputs from the central control unit (one motor is associated with one water inlet in your underfloor heating/cooling system). - For simplified management of your installation: define rooms and zones via the mobile application.



Simplified identification	<ul style="list-style-type: none"> - Identification of thermostats by room: during installation, each thermostat is assigned to a room and given an identifier by the mobile application. - Simplified identification on the application lets you see which thermostats are assigned to each room or zone in your home, allowing you to reposition them in the right room during installation.
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Settings

3 levels of settings	User, Advanced, Expert
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User settings

Available manually on the thermostat and remotely via the mobile app

Modification of the setpoint temperature	Preset to +19°C , adjustable from +5°C to +30°C in heating mode and from +7°C to +38°C in cooling mode, in 0.5°C steps
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Advanced settings

Radio unpairing	Used to disconnect a thermostat from a control unit to associate it with another input (or room in the house) or assign it to another control unit
Temperature offset adjustment	Calibration of the room temperature sensor
Brightness adjustment	10 to 100%, in 10% steps

Expert settings

Setting of the eco temperature set-back for the current mode (heating or cooling)	<ul style="list-style-type: none"> - Heating mode: default -3.5°C, adjustable from -1°C to -8°C in 0.5°C steps - Cooling mode: default +3.5°C, adjustable from +1°C to +8°C in 0.5°C steps
Setting of the frost protection setpoint temperature	<ul style="list-style-type: none"> - Only available in heating mode - +12°C default, adjustable from 5°C to 20°C in 1°C steps

Technical specifications

Dimensional, weight and finish specifications

Height	81,6 mm
Width	81,6 mm
Depth	16,1 mm
Weight	87,4 g
Color	White or black

Electrical specifications

Operating voltage	3 VDC Product supplied with : 2 x 1.5 VDC AAA / LR3 alkaline batteries
Electronic temperature sensor	NTC 10 kΩ
Consumption in standby	70 μA
The thermostat is in standby mode by default to save energy	

Radio transmission

Frequency	LoRa: 869.725-869.975 MHz, bandwidth: 125 kHz (transmission < 14 dbm)
Emission	On change of state, otherwise a repeat every 5 minutes

Environment

Protection rating	IP20 construction with functional earth connection
Insulation class	Class III
Operating temperature	0°C to +40°C
Max. humidity level	85% at +25°C (without condensation)
Storage temperature	-20°C to +70°C

Applicable directives

RED	2014/53/EU
RoHS	2011/65/EU

Applicable standards

Safety	EN 60730-1
EMC	ETSI EN 301489-1/ ETSI EN 301489-3
Radio	ETSI EN300220-2
RoHS	EN IEC 63000

Product codes

Codes	Descriptions
RSLRFIMHA	Radio room thermostat, white version
RSLRFIMHBA	Radio room thermostat, black version

Compatible product(s) (sold separately)

Codes	Descriptions
UFH	
UFHRF230EIMHBA	Wireless control unit for hydraulic underfloor heating/cooling system, 12 channels, 230V electrothermal actuators
UFHRF24EIMHBA	Wireless control unit for hydraulic underfloor heating/cooling system, 12 channels, 24V electrothermal actuators

Thermoelectric actuator

MTC0230IMHA	230V output electrothermal actuator, low power consumption NC voltage-free for central control unit UFHRF230EIMHBA
MTC0024IMHA	24V output electrothermal actuator, low power consumption NC voltage-free for central control unit UFHRF24EIMHBA

Gateway

BRI4PIMHA	Multi-protocol LoRa/Wifi/Bluetooth/Zigbee gateway, black
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Product customization (design features) possible. Please contact us.