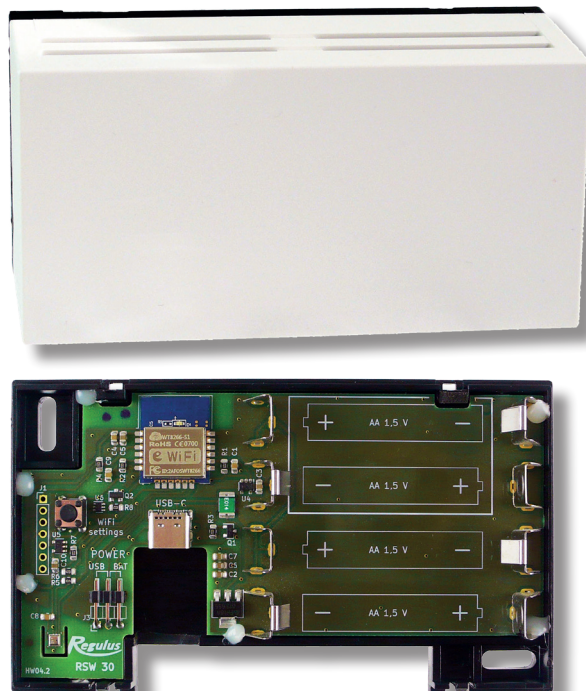




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WiFi RSW 30

Installation and Operation Manual  
**WiFi RSW 30 Wireless Room Sensor**

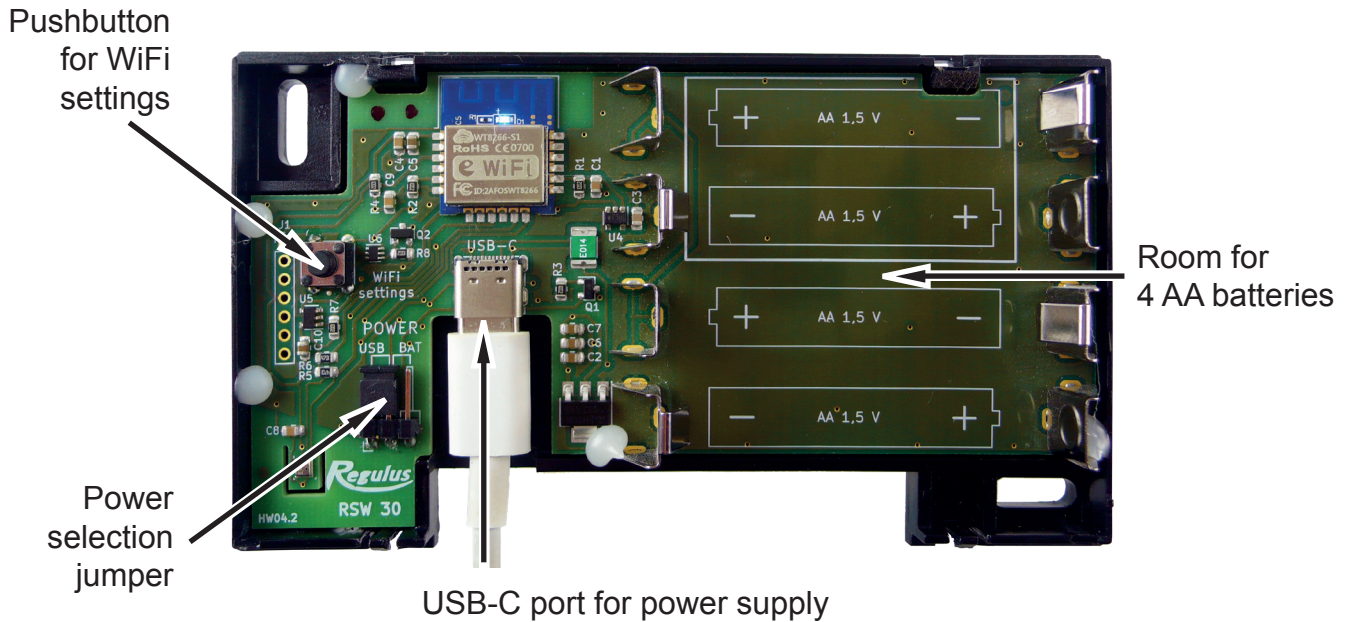
**EN**

**WiFi RSW 30**

# 1. Description

This wireless room sensor is designed to sense room temperature and humidity in a heating zone. The measured data are transmitted wirelessly via local WiFi network to an IR controller.

The room sensor can be powered either from AA batteries (1.5V) or via a C-type USB port (5V, 100 mA). Installs on a wall using the enclosed screws.



Please read the instructions carefully before installation and follow the instructions provided when using the device.

## 1.1. Instructions regarding batteries

- Use only batteries of the specified type.
- Respect the right polarity of the batteries.
- Use alkaline batteries only.
- Do not mix batteries of different age and level of discharge.
- If you know that the device will not be used for a longer time, remove the batteries.

## 1.2. Instructions regarding installation and operation

- This room sensor is intended for indoor use only.
- Do not place the sensor to rooms where it could be exposed to excess humidity or rain.
- It should be installed on a wall, about 1.5 m above the floor, located where room temperature changes can be felt thanks to freely circulating air.
- Do not install above a heat source (a TV set, heater, fridge etc.) or to places where it may be exposed to direct sunshine, draught, radiation from other devices.
- Be careful when connecting the power supply.

The manufacturer disclaims any liability for damage caused by improper installation or use of the device contrary to the instructions.

## 2. Specifications

### Code: 18474

|                                     |   |
|-------------------------------------|---|
| Temperature measurement range       | -10 °C to 50 °C                                       |
| Temperature tolerance               | ±1 K  |
| Permissible temperature range       | -15 °C to 55 °C                                       |
| Relative humidity measurement range | 1 to 80%  |
| Humidity tolerance                  | ±4%   |
| Permissible humidity range          | 0 to 80% bez kondenzace                               |
| Transmission power; WiFi frequency  | up to +20 dBm; 2.4 GHz                                |
| IP rating                           | IP 20   |
| Dimensions (H x W x D)              | 70 x 121 x 25 mm                                      |
| Wall mount                          | 2 screws  |
| Compatible controllers              | IR12 (ver. FW 04.11. or higher)<br>IR14<br>RegulusBOX |

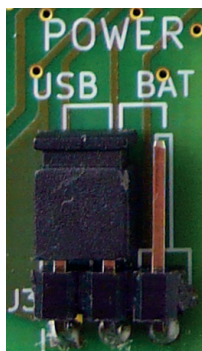
## 3. Procedure of putting to operation and connecting to IR controller

### 3.1. Power supply

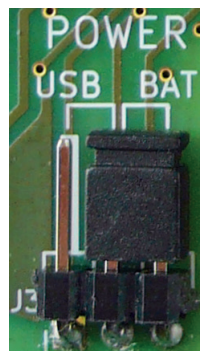
Select the desired power supply manner using the jumper (USB / BAT) and either insert 4 AA batteries or plug the 5V power supply to the USB-C port.

**Never connect both the power supply manners (battery & USB) at the same time!**

Jumper for USB-C power supply

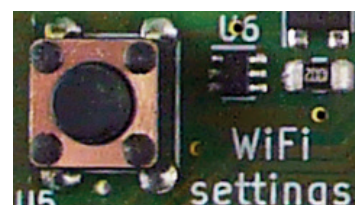


Jumper for 4 AA batteries power supply



### 3.2. Connecting the room sensor using a smartphone

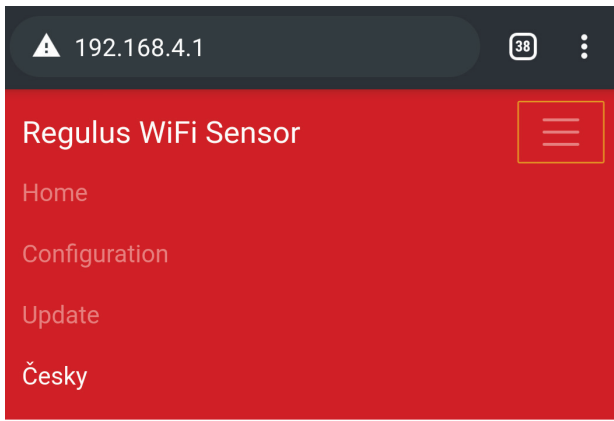
Switch to the configuration mode by pressing the pushbutton for WiFi settings, which activates the access point and creates a WiFi network named Regulus RSW 30.



When the configuration mode is active, the blue LED is lit. (It may take several seconds before it lights up.)



Turn off the data connection on your smartphone, turn on Wifi, search for **Regulus RSW 30** network, enter **12345678** as a password and connect to the sensor. (The phone usually reports that the Wi-Fi network has no Internet connection, which is OK.)



Enter the IP address **192.168.4.1** in the address bar of your Internet browser and confirm it - this will take you to the device configuration web page.

If the page is displayed in Czech, you can switch the language by clicking the menu button and selecting English.

### 3.3. Connecting the room sensor to a local WiFi network



To connect to a local Wi-Fi network, click on „**Configuration**“ and enter the name and password of the local Wi-Fi network.

Click the „**Scan**“ button to view available Wi-Fi networks.

If you don't know the „**Security**“ of a given Wi-Fi network, use the „Scan“ feature, it will also show the security type for each available network.

Click the „**Save configuration**“ button to save the settings.

To load the saved settings, always restart to the configuration screen by clicking on „**Reboot**“.

## Configuration

- [WiFi](#)
- [Device](#)
- [IP](#)
- [Security](#)
- [Reboot](#)

## WiFi configuration

WiFi name (SSID)

Max. length 32 characters

WiFi password

Max. length 64 characters

Security

- None    WEP    WPA-PSK/WPA2-PSK  
 WPA2-PSK only

Save configuration

## Available networks

Scan

### 3.4. Connecting the room sensor via WiFi network to the IR controller

## Device configuration

Sensor ID

Range 1 - 6

IR Address

Expected format: xxx.xxx.xxx.xxx

Check new FW

Automatic IR detection

Submit interval

Time between submissions to IR in minutes

Use low energy mode

The values are sent to the IR when the temperature changes by more than 0.5 K, but no longer than once an hour

Save configuration

## IR Connection Test

Test

In the „**Device configuration**“ section below, enter the zone number and IP address of the IR controller in the local network.

It is best if the IR controller has a static IP address set.

If it is an IR 12, FW v. 4.12 or higher, IR 14 and newer models, or a RegulusBOX, tick the option „**automatic IR detection**“ (entering the IP address is then not necessary) and leave the zeros in the field.

To extend battery life, you can extend the data transmission interval (up to 60 minutes) or tick the „**Use low energy mode**“ option to limit sending duplicate data as long as the room temperature does not change by more than 0.5 °C within an hour. It is not recommended to set a data transmission interval shorter than 10 minutes in low energy mode. Low energy mode may cause connection errors in some cases.

Click the „**Save configuration**“ button to save the settings.

To load the saved settings, always restart to the configuration screen by clicking on „**Reboot**“.

The „**IR Connection Test**“ function is designed to check the saved configuration and automatically find the IR controller in the network. However, before this, the room sensor shall be assigned to the heating zone in the IR controller (see the next chapter).

### 3.5. Assigning the room sensor to a heating zone in the IR controller

In the selected heating zone, set the „WiFi room sensor“ (code no. 7) as the room temperature sensor and save the settings.

**Regulus**

USER

HOME

HEATING

DOMESTIC HOT WATER

SOURCES

OTHER

SYSTEM FAULTS

SYSTEM BLOCKS

MANUALS

HOME / BACK

**ON** Zone 1

Heating

|             |              |
|-------------|--------------|
| ZONE STATE  | ON - SETBACK |
| MODE        | WINTER       |
| RC21 SWITCH | NOT PRESENT  |

**ROOM TEMPERATURE SENSOR**

Sensor type

- 0 = no sensor
- 1 = Pt1000 sensor
- 2 = RC21 room control unit
- 3 = RCM2 room control unit
- 4 = RCD room control unit
- 5 = thermostat
- 6 = not used
- 7 = WiFi room sensor**
- 8 = room control RC25

## 4. IMPORTANT INFORMATION ON DISPOSAL IN COMPLIANCE WITH THE EUROPEAN DIRECTIVE 2002/96/ES

Do not dispose of this product as unsorted municipal waste. Please dispose of this product by returning it to the point of sale or to your local municipal collection point for recycling.

Respecting these rules will help to preserve, protect and improve the quality of the environment, protect human health and utilize natural resources prudently and rationally.

The crossed out wheeled bin with marking bar, printed either in the Manual or on the product itself, identifies that the product must be disposed of at a recycling collection site.

The crossed out wheeled bin informs that this product must not be disposed of as municipal waste. It must be handed over to a local municipal collection point for ecologic recycling.



WEEE registration number: 02771/07-ECZ

