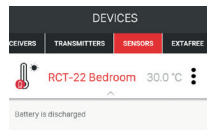


ADDING THE SENSOR TO THE REP-21 RETRANSMITTER

1. Press the PROG button of the transmitter briefly (1s) - the STATUS LED lights up blue.
2. After the LED has lit up blue within <5 s, briefly press the PROG button on the sensor to be added to the retransmitter.
3. STATUS LED blinks orange and goes out - it means that the sensor is correctly assigned.
4. After this operation, the STATUS LED on the retransmitter lights up blue when the PROG button on the sensor is pressed - this means that the signal from the sensor is retransmitted.

INDICATION OF THE BATTERY DISCHARGE STATUS

During normal use discharge status the battery is indicated by several quick blinks of the STATUS LED during transmission of temperature information. If the sensor is paired with the controller, then the battery discharge status is also indicated in the mobile application by displaying an appropriate message under the name of the sensor. The sensor indicates the need for battery replacement once its voltage has decreased to <2.2 V. The indication is only cancelled after replacing the battery.



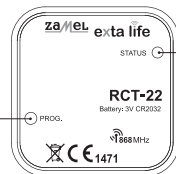
Indication of the battery discharge status in the EXTA LIFE application

BATTERY REPLACEMENT

1. Use a screwdriver to unscrew the back flap.
 2. Remove the electronics board.
 3. Remove the battery from the grip.
 4. Press the PROG button several times (to discharge capacity).
 5. Install a new battery paying special attention to the polarity. The polarity is marked on the terminal (potential "+").
- CAUTION: Incorrect installation of the battery may result in damage to the sensor!**
6. Insert the electronics board into the housing.
 7. Install the back flap.
 8. Check for correct operation - when pressing the PROG button, the LED should light up as if it was transmitting.

APPEARANCE

Pairing button /
immediate dispatch
of temperature values
to the EFC-01 controller



Indication of
data transmission

DESCRIPTION

RCT-22 sensor enables measurement of temperature in the EXTA LIFE system. Measured temperature value is dispatched by radio to the EFC-01 controller and displayed in a mobile application. The sensor, through logical functions can participate in the automation of temperature control processes in home installations. RCT-22 is distinguished by its wide measurement range and resolution of 0,1°C. It is powered by a battery CR2032. Small dimensions of the sensor facilitate the installation, for example in Ø60 junction boxes under standard electrical installation equipment.

FEATURES

- temperature measurement in the EXTA LIFE system,
- measured temperature value dispatched to the EFC-01 controller,
- radio transmission (f = 868,50 MHz),
- wide measurement range (-40°C ÷ +125°C),
- measurement resolution (0,1°C),
- battery-powered (1 x CR2032),
- long battery life*,
- compact dimensions (47,5 x 47,5 x 13 mm),
- wide operating range (up to 300 m).

* Battery life is greatly affected by the sensor's operating conditions (operating temperature, frequency of temperature changes by a value exceeding the measurement hysteresis).

OPERATING PRINCIPLE

The operating principle of the RCT-22 sensor is based on temperature measurement and dispatching the measured value to the EXTA LIFE controller. The temperature value can be displayed in the mobile application and used in control processes, for example, by means of logical functions. The temperature sensor used in RCT-22 is a digital sensor. It allows for temperature measurement in the range from -40°C to -40°C up to $+125^{\circ}\text{C}$.

CAUTION: The operating temperature range of the RCT-22 sensor is from -10 to $+55^{\circ}\text{C}$, therefore the sensor should not be used to measure temperatures beyond this range.

Due to the battery power supply, the sensor has been equipped with solutions aimed at minimizing battery consumption. The sensor measures every preset time interval TP (15 minutes). If the current measurement result (T^*) differs from the previous value (T') by a determined hysteresis value ($h_P = 0.3^{\circ}\text{C}$), the measurement result is dispatched to the controller. Otherwise, the transmission will not take place. If the temperature changes over successive 10 measurements are below the hysteresis, the temperature value is dispatched to the controller only after the mandatory time interval ($T_{ob} = 150$ min).

$T^* - T' > h_P$ – dispatching temperature value to the controller

$T^* - T' \leq h_P$ – no temperature transmission to the controller

Pressing the PROG button on the sensor casing will immediately dispatch the temperature value to the EXTA LIFE controller.

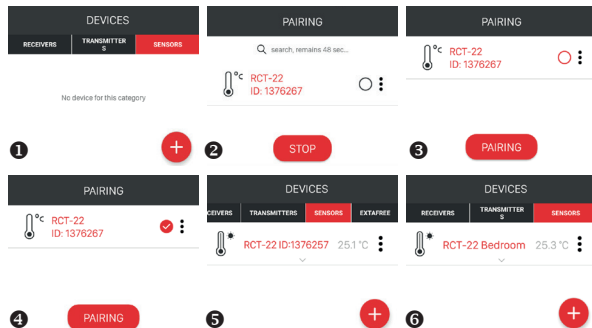
ADDING THE SENSOR TO THE EXTA LIFE SYSTEM

Adding the RCT-22 sensor to the system requires connecting the EFC-01 controller and installing the extalife application on your mobile device.

In order to pair the sensor with the controller, it is necessary to:

1. Start the EXTA LIFE application.
2. Enter the "Devices" screen.
3. Select the "Sensors" tab **1**.
4. Enter the search screen by pressing the "+" button.
5. Within less than 60 seconds, press the PROG button on the sensor.
6. The temperature sensor will be registered in the list of sensors for pairing with the controller.
7. Within 60 seconds, you can register further temperature sensors or stop the search by pressing the "Stop" button **2**.
8. After completing the search, select the RCT-22 sensors you want to add to the EFC-01 and press the "Pair" button **3**.

9. After these operations, the sensor is visible in the system and indicates the temperature recorded during the pairing process. The sensor can be named, assigned an icon and used in the mobile application (assignment to users, to categories, to logical functions, etc.) **4**.
10. In some cases, immediately after pairing the sensor, the value displayed in the application may be 0°C . In such a case, press the PROG button on the sensor and refresh the list of sensors.



REMOVING THE SENSOR FROM THE EXTA LIFE SYSTEM

In order to remove the sensor from the controller, it is necessary to:

1. Start the EXTA LIFE application
2. Enter the "Devices" screen
3. Select the "Sensors" tab
4. Select the option "Remove" from the sensor's context menu. After confirmation, the sensor is removed from the system.

