

Digital room unit RCD20

Presentation



Digital room unit RCD20 is used to control the room temperature in connection with the SELTRON heating controllers. It is characterized by a minimalistic design and a simple user interface with a large illuminated display and large keyboard.

Typical application

- In domestic buildings for setting and monitoring of the requested room temperature in connection with SELTRON controllers WDC, WXD, KXD and AHD.

Features

- Easy and comfortable setting with the use of a smart device (phone).
- Powered by a battery that can be recharged via USB-C connector (wireless version only).
- User functions PARTY, ECO, HOLIDAYS, FIREPLACE and one-time activation of DHW.
- Measurement of relative humidity in the room (depending on the model).
- Measurement of the air quality in the room (option).

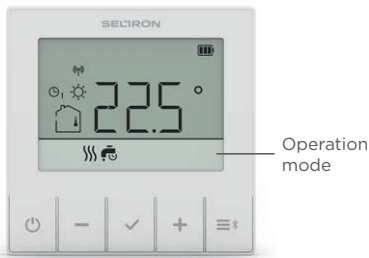
Appearance



- 1 - Illuminated LED display.
- 2 - Button to turn operation ON/OFF.
- 3 - Button for reducing or move backward.
- 4 - Button for overview of information and menu entering.
- 5 - Button for increasing or move forward.
- 6 - Button to turn ON/OFF user functions or connecting with smart device.
- 7 - Button (antenna) for wireless pairing with controller.


Technical characteristics	RCD20	RCD20W
Max. number of room units on heating controller WXD, WDC, KXD, KUD, KPD	2	2
Max. number of room units on compact weather compensated controller CMP, AHC, AHD	1	1
Wired connection with controller	●	—
Wireless connection with controller	—	●
Option of connecting an auxiliary sensor	●	—
User functions		
PARTY function – activation of comfort operation mode	●	●
ECO function – activation of economy operation mode	●	●
HOLIDAY function – activation of operation for longer period (holidays)	●	●
FIREPLACE function – activation of operation with parallel heating (with FIREPLACE)	●	●
DHW function – one-time DHW heating	●	●
Data display		
Display of actual measured and set temperature	●	●
Display of relative humidity	—	—
Display of temperatures, measures on controller	●	●
Display of battery status and need for recharge	—	●
Display of outdoor temperature	●	●
Display of screed temperature	●	●
Setup and installation		
Wall installation	●	●


Outlined functions

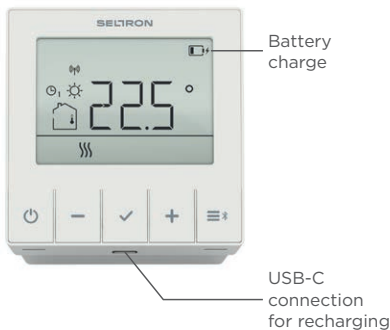


Selection of the operation mode

You can easily and quickly select or change the operation mode on the room unit.

By pressing the button  you can switch between heating and DHW, only heating or only heating of DHW or switch OFF of the heating system.

With a long press of the button , you may change the working mode from heating to cooling.




Powered by a rechargeable battery

The wireless model of the RCD20 room unit is powered by a rechargeable battery. Discharged battery can be charged with any charger that has USB-C connector. This saves on the cost of annual battery replacement and avoids potential damage to the unit in case of battery spill.

The connection for charging the battery is located on the bottom part of the housing.



Room unit has many user functions available with which the user can adjust the operation to his needs at any time. By pressing the button , you can select between available user functions.

 **PARTY function**

PARTY is a function that turns ON the heating or cooling to a comfortable temperature outside the set time program.

The temperature and duration of the function can be set as required.

 **ECO function**

ECO is a function for switching the heating or cooling to an economical temperature in case of short absence.

The temperature and duration of the function can be set as required.

 **HOLIDAY function**

HOLIDAY is a function for switching the heating or cooling to the holiday temperature in the event of a long absence.

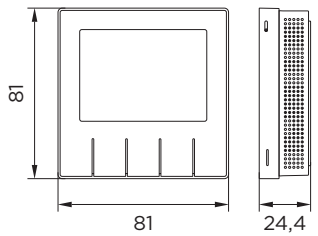
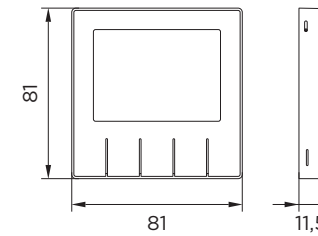
The temperature and duration of the function can be set as required.

 **FIREPLACE function**

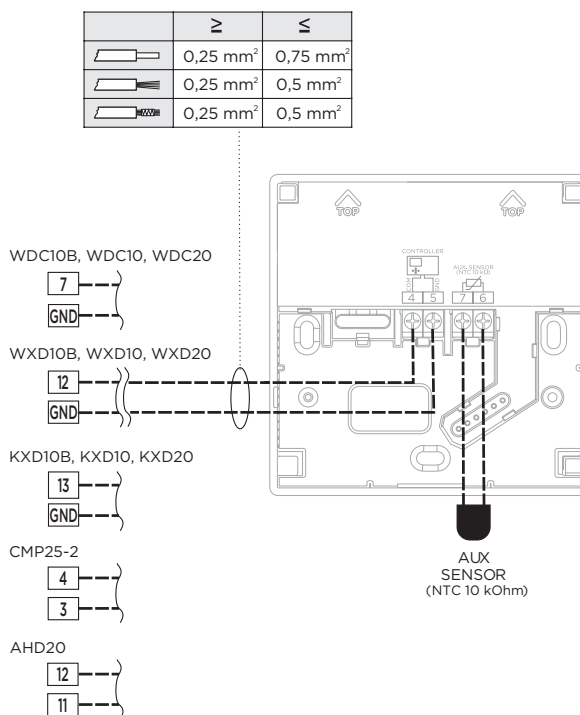
FIREPLACE function temporary disables the influence of the room temperature. When the FIREPLACE function is activated, the heating continues to operate on the basis of outdoor temperature.


 **DHW function**



This function enables one-time activation of DHW warming at any time. The function automatically switches OFF when the requested DHW temperature is reached or after one hour after the activation.

Technical specification	RCD20	RCD20W
Wall installation or onto a flush socket		●
Communication	Modbus, wired connection	Wireless connection, 2.4 GHz
Power supply	12 V DC, bus line	LiPo battery, 3.7V, 1000 mAh
Own consumption	< 0,02 W	
Clock accuracy	+/- 1 s (24 h) at 20 °C	
Degree of protection	IP 20 according to SIST EN 60529	
Safety class	III according to SIST EN 60730-1	
Type of temperature sensors	RTD Murata NTC (10 k Ω)	
Housing material	PC+ABS thermoplastic	
Permissible ambient temperature	0÷40 °C	
Storage temperature	-20÷65 °C	
Product weight	115 g	95 g
Packing unit	24 pcs	
Dimensions		

Electrical connection



Item	Order code	Description
	1RBD30F-060	Room unit SELTRON RCD20, wired connection, surfaces-mounting
	1RBD30WF-060	Room unit SELTRON RCD20W, wireless connection, surfaces-mounting

Older version of room unit RCD	NEW model of room unit RCD
 <p>RCD1 Room unit (corrector) for heating controller</p> <hr/> <p>RCD2 Room unit for heating controller</p>	 <p>RCD20 Room unit for heating controller</p>

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