

# Digital room unit RCD40

## Presentation



Digital room unit RCD40 is used to control the room temperature in connection with the SELTRON zone controllers. It is characterized by a minimalistic design and a simple user interface with a large illuminated display and large keyboard.

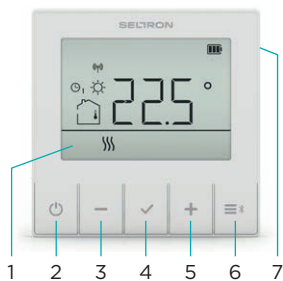
### Typical application

- In systems with zone control for setting and monitoring of requested zone temperature in connection with zone controller ZCE.

### 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.
- Measurement of relative humidity in the room (option).
- Measurement of the air quality in the room (option).

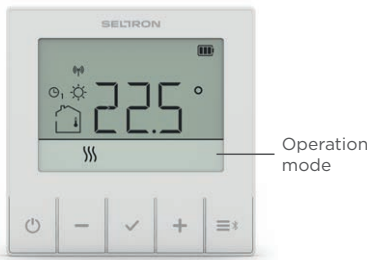
## Appearance



- 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	RCD40	RCD40W
Max. number of room units on zone controller ZCE	6	6
Wired connection with controller	●	—
Wireless connection with controller	—	●
Option of connecting an auxiliary sensor	●	—
<b>System control (together with one of the heating controllers)</b>		
Floor heating system	●	●
Convector heating system	●	●
Wall and ceiling heating systems	●	●
<b>User functions</b>		
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)	●	●
<b>Data display</b>		
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	●	●
Zone status display	●	●
<b>Setup and installation</b>		
Wall installation or installation into a flush mounted socket	●	●


**Outlined functions**

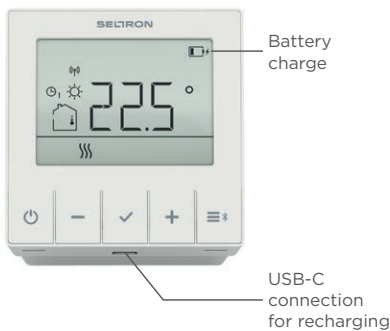


**Selection of the operation mode**

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

By pressing the button  you can switch between operation ON and OFF.

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 RCD40 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.



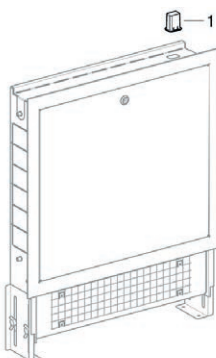
Room unit has many user functions available with which the user can adjust the operation to his needs at any time. By pressing the button , you can select between available user functions.

-  PARTY function
-  ECO function
-  HOLIDAY function
-  FIREPLACE function



**Option of selecting the master room unit for the central control of all six temperature zones.**

When defining the first room unit as the "MASTER" unit, the setup can be carried out only at one room unit whereas these apply to all other slave room units. That way we avoid a painstaking configuration of identical settings on several room units. The ZCE zone controller provides three autonomy levels of slave room units. The setting we select depends on the freedom we want to leave to the user in controlling individual zones.



**Solution for a smooth communication signal flow between the room unit and the controller**

Communication with wireless room units is often difficult due to the fact that the junction boxes are flush-mounted and made of metal sheet that prevents a smooth flow of the radio signal. For the ZCE controller, we enabled the installation of the transmitter outside the junction box housing. This ensured a smooth communication between the controller and wireless room units.

Technical specification	RCD40	RCD40W
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 kE)	
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		

Item	Order code	Description
	1RBD30FZ-06	Room unit SELTRON RCD40, wired connection, surfaces-mounting
	1RBD30WFZ-060	Room unit SELTRON RCD40W, wireless connection, surfaces-mounting

Older version of room unit RCD	NEW model of room unit RCD
<p><b>RCD3</b> Room unit (corrector) for zone controller</p>	<p><b>RCD40</b> Room unit for zone controller</p>
<p><b>RCD4</b> Room unit for zone controller</p>	

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