

**Design Thermostat
Flush Mounted 230V + RF**

Model: **CRTDW**



Quick Guide

INTRODUCTION

The **CRTDW** is a temperature controller with a built-in 3A relay and wifi chip for connection as a transmitter in a RF or SMART system. The room thermostat can be connected conventionally, wired to a wiring centre **CKL6230N**. However, it can be integrated into an RF systems and the SMART Home System at any time (even retrospectively) and thus offers an upgrade of the existing system. To control the **CRTDW** via the Internet and the Smart Home app (ONLINE mode), it must be installed together with the Universal Gateway **CGW** (sold separately).

PRODUCT COMPLIANCE

This product complies with the essential requirements and other relevant provisions of the following EU Directives: EMC 2014/30/EU, LVD 2014/35/EU, RED 2014/53/EU and RoHS 2011/65/EU.

SAFETY INFORMATION

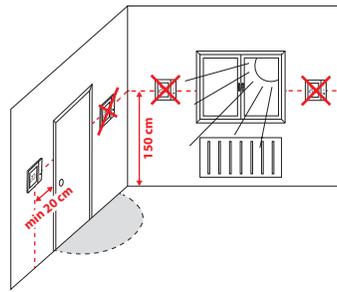
Use in accordance to national and EU regulations. Use the device as intended, keeping it in dry condition. Product for indoor use only. Installation must be carried out by a qualified person in accordance to national and EU regulations. Disconnect your equipment before cleaning it with a dry cloth.

Warning: Please always ensure the AC 230V mains power is switched off before installing or working on any components.

TECHNICAL SPECIFICATION

Power Supply	AC 230 V
Temperature range	5-35°C
Display temperature accuracy	0.5°C or 0.1°C
Control algorithm	ITLC SPAN (±0.25°C / ±0.5°C) THB
S1-S2 Input (multifunctional input)	Floor temperature Air temperature Occupancy sensor One Touch Changeover (heating/cooling)
Output control	COM – NO (volt-free)
Max current	3 (1) A
Communication protocol	ZigBee 2,4GHZ
Mounting	Flush mounting
Working temperature	0-45°C
IP protection class	IP30
Dimensions [Width x Height x Deep]	86 x 86 x 10 mm

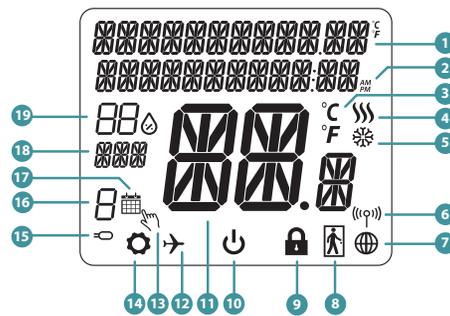
PROPER THERMOSTAT PLACEMENT



MOUNTING

To mount thermostat you can use included accessories (mounting screws). Remove plate from the back to mount it to the wall. After that just put thermostat on the plate.

LCD ICON DESCRIPTION

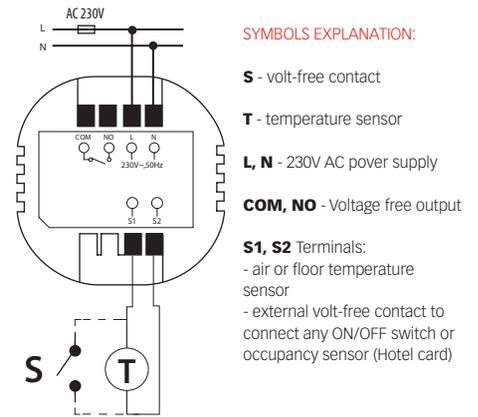


1. Menu/Settings description + Clock
2. AM/PM
3. Temperature unit
4. Heating indicator (icon is animating when there is heating demand)
5. Cooling indicator (icon is animating when there is cooling demand)
6. RF Connection indicator
7. Internet connection indicator
8. Occupancy sensor (hotel card)
9. Key lock function
10. Standby mode icon
11. Current Temperature / Setpoint Temperature
12. Holiday mode
13. Temporary override mode
14. Settings icon
15. External / Floor temp sensor indicator
16. Schedule program number
17. Schedule mode icon
18. Day indicator / SET information
19. Current Humidity value

BUTTON FUNCTIONS

BUTTON	FUNCTION
≡	1) Menu button / Return button. 2) In the MAIN SCREEN: Press and hold for 3 sec to change the thermostat operating mode (Schedule mode / Permanent mode / Temporary override mode). 3) In the SETTINGS SCREEN: Press and hold for 3 sec to go back without saving the changes. 4) In the PAIRING SCREEN (in SYSTEM TYPE Menu): Press and hold for 3 sec to see other pairing options.
∨	„Down“ Button (Decrease parameter value/ moving on the menu in 'DOWN' direction)
∧	“Up” Button (Increase parameter value/moving on the menu in 'UP' direction)
✓	1) “OK / Tick” Button (Confirm parameter value / Go to the next menu / Save settings). 2) In the MAIN SCREEN: Press and hold for 3 seconds to enter Standby mode. 3) In the SETTINGS SCREEN: Press and hold for 3 sec to go back to the MAIN SCREEN & SAVE all the changes.
∨ + ∧	In the MAIN SCREEN - press and hold these buttons together for 3 seconds to LOCK / UNLOCK the Thermostat keys.

WIRING DIAGRAM



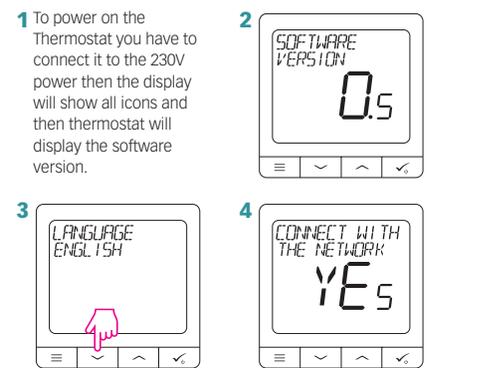
- SYMBOLS EXPLANATION:**
- S** - volt-free contact
 - T** - temperature sensor
 - L, N** - 230V AC power supply
 - COM, NO** - Voltage free output
 - S1, S2** Terminals:
 - air or floor temperature sensor
 - external volt-free contact to connect any ON/OFF switch or occupancy sensor (Hotel card)

SELECT THE TYPE OF ZIGBEE COORDINATOR

- Online - connected to the Internet via the gateway
- Offline - the ability to connect to the Internet using the gateway
- Offline - without Internet connection with coordinator

FIRST POWER UP SEQUENCE

For easier installation, please make sure you have already added other devices to your ZigBee network, such as Underfloor Heating Wiring Centre (**CFKL8**).



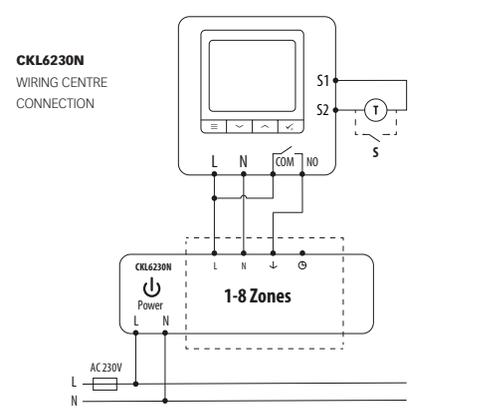
Now, choose your language using ∨ or ∧ buttons. Confirm your language using ✓ button.

YES - ONLINE, OFFLINE MODE

You can configure your thermostat with Universal Gateway or the Coordinator. That is, add it to the Salus Smart Home system.

NO - STANDALONE

CRTDW can work without the Gateway or the Coordinator as a standalone device. You can directly connect thermostat to selected device without any network system.



INSTALLATION IN ONLINE MODE

After Language selection follow below steps to add your device to the Smart Home app and pair with other devices:



Note: In step 5, you can also click the gear icon and continue to setup CRTDW directly with a compatible device.



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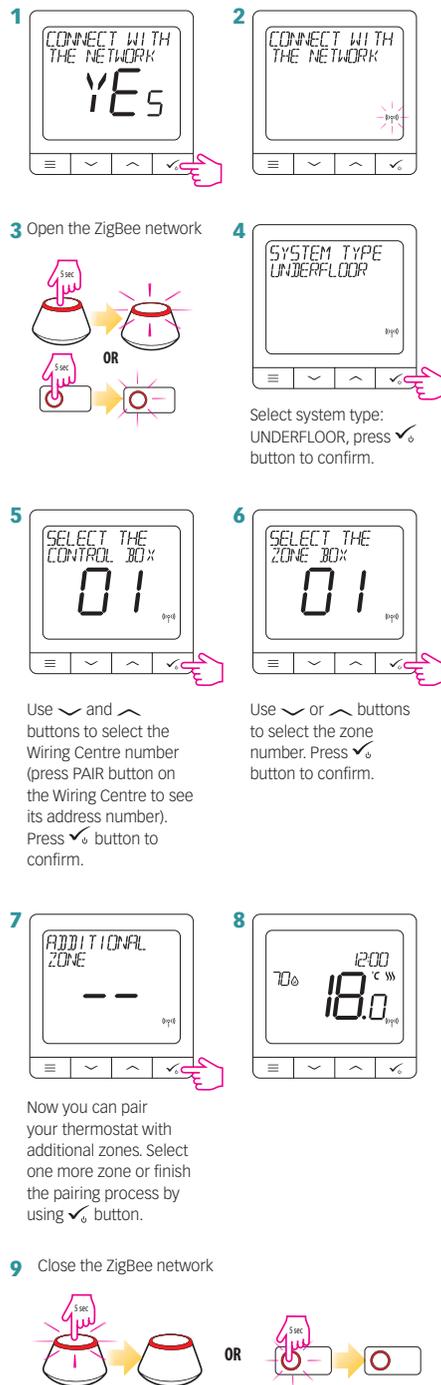
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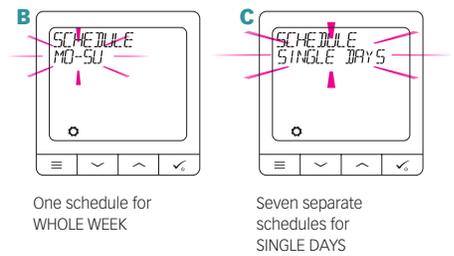
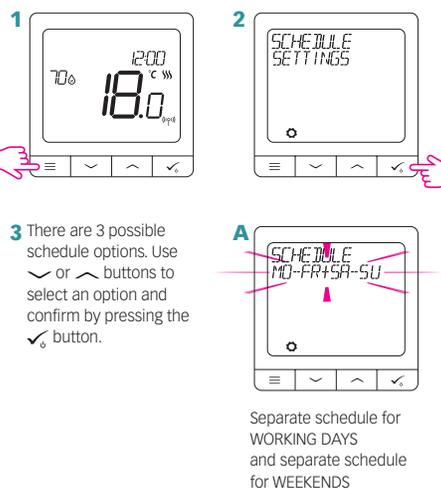
INSTALLATION IN OFFLINE MODE

PAIRING WITH CFKLB

Install the wiring centre according to the instructions attached to the product.



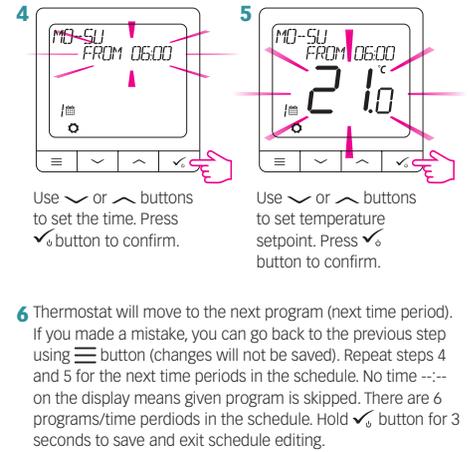
PROGRAMMING IN OFFLINE MODE



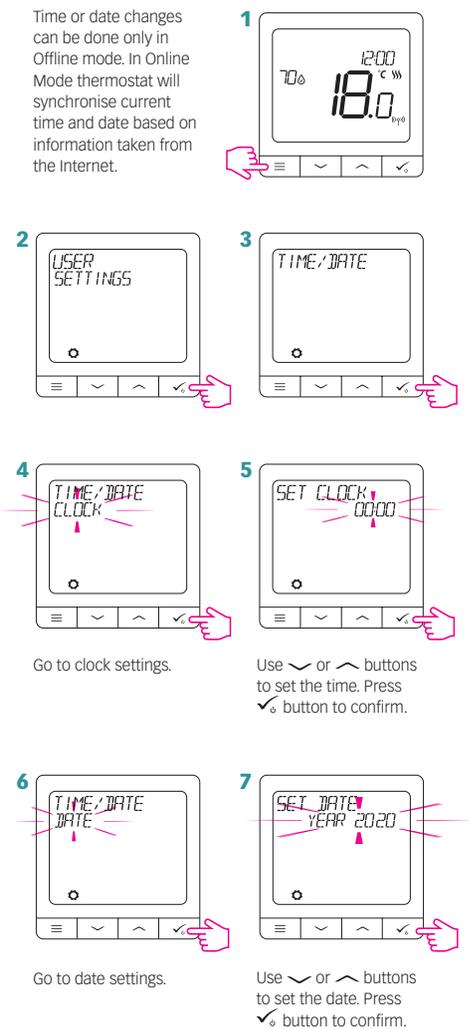
One schedule for WHOLE WEEK

Seven separate schedules for SINGLE DAYS

SCHEDULE PROGRAMMING EXAMPLE FOR THE WHOLE WEEK



SETTING TIME AND DATE



Go to clock settings.

Use down or up buttons to set the time. Press checkmark button to confirm.

Go to date settings.

Use down or up buttons to set the date. Press checkmark button to confirm.

