PACKAGE CONTENT

CFTW
Wireless dial room
thermostat

Quick guide

Fixing Screws

3M Sticker-self adhesive
tape

AAAA batteries x 2

Icons used in this manual:

⚠️ Safety

ℹ️ Important info

👍 Your benefit

PRODUCT DESCRIPTION

Thank you for purchasing the CFTW Thermostat. This thermostat is a device that let's you customize the heating and cooling of your home as needed. The CFTW is a wireless dial room thermostat used for under oor heating systems. The thermostat is compatible in the o ine mode with the wiring centre CKL8 and its extension KL04RF, coordinator CO10RF and the repeater CFRWN. Easy to operate using the conventional adjusting dial, it o ers unique control convenience for your under oor heating system. We hope you enjoy our product.

PRODUCT COMPLIANCE

This product complies with the essential requirements and other relevant provisions of RED Directives 2014/53/EU and 2011/65/EU.

(((•))) 2405MHz-2480MHz; <14dBm (Zigbee)

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 quali ed person in accordance to national and EU regulations. Disconnect your equipment before cleaning it with a dry cloth.
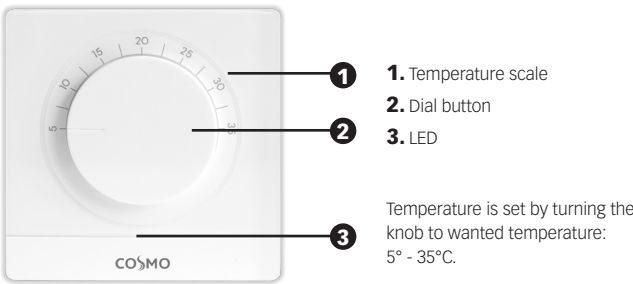
MOUNTING

ℹ️ The ideal position to locate the thermostat is 1,5 m above oor level, far from heating or cooling sources. The thermostat can't be exposed to sunlight or any extreme conditions, for example draft. It should be mounted in a location where the thermostat is easily accessible and away from direct sunlight.

ℹ️ For wall mounting, to mount the thermostat you can use included accessories (mounting screws or self-adhesive tape). Remove back cover to mount the plate to the wall. After this just attach thermostat to the plate (it has built-in magnet).
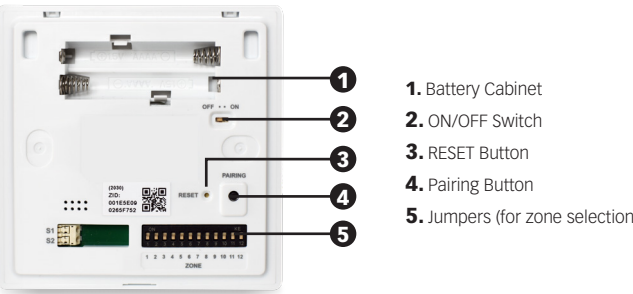
BACKPLATE

FRONT

1. Temperature scale

2. Dial button

3. LED

Temperature is set by turning the knob to wanted temperature: 5° - 35°C.

BACKPLATE

1. Battery Cabinet

2. ON/OFF Switch

3. RESET Button

4. Pairing Button

5. Jumpers (for zone selection)

Sept 2023
V003

COSMO
GUTES KLIMA
BESSER LEBEN

Wireless dial room thermostat
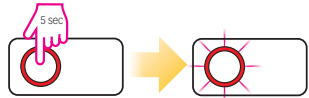Model: **CFTW**

Quick guide

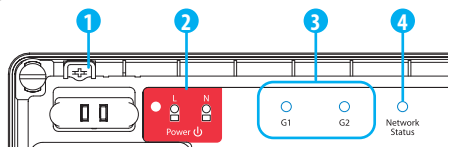# HOW TO CONNECT THE CFTW TO THE CFKL8 WIRING CENTER

1 Connect the RF Wiring Centre with the coordinator and set it to receiving mode.

1.1 Open coordinator

Press Coordinator button for about 5 seconds until the LED starts flashing RED.

1.2 Open the wiring Centre network

Wait until network LED (4) permanently flash GREEN.

2 Connect the CFTW thermostat to zones of the wiring centre.

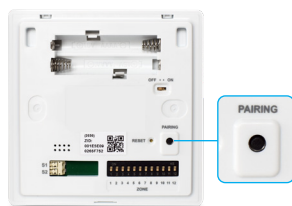**2.1** Zone selection to be associated with this room thermostat:

DIP switches of the zones to be connected should be set to ON (up).

2.2 Insert the batteries (included) in the battery compartment and turn on the thermostat

Please pay attention to the correct polarity

2.3 Keep pressed the pairing button for 3 to max. 10 seconds

The LED on the front of the thermostat flashes first RED 3 times.

The LED flashes ORANGE - if the LED stops blinking, the thermostat is connected.
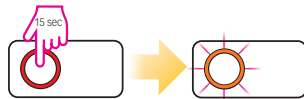
3 Complete the pairing process

When all room thermostats are connected, then press and hold the coordinator button for about 5 seconds!

ℹ **What to do if you want to change zone assignments or if a zone was assigned twice during pairing? (LED flashes RED 5 times). Please go on with Chapter 4!**
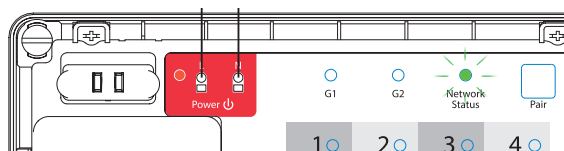
4 Reset the terminal block and room thermostats

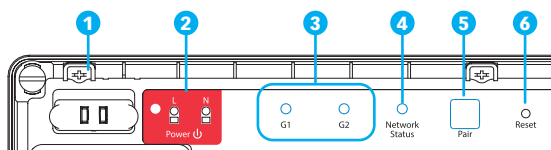**4.1** Reset wireless terminal block CFKL8:

Hold down the coordinator button for 15 seconds until the LED lights up ORANGE.

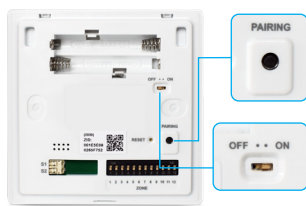After that, the LED lights up STEADY RED and the network button (4) flashes GREEN

Now press the reset button (6) with a screwdriver. When all zone LEDs are switched off, disconnect the wiring center from the power supply!

4.2 Reset all room thermostats

Set all DIP switches back to OFF (down).

4.3 Press the pairing button until the LED on the front turns BLUE and goes off again.

4.4 Turn off the thermostat

Please wait 2 - 3 minutes until all capacitors have discharged!

ℹ **Then put the wiring center back to power and start again with chapter 1!**

LED INDICATION

Short press (press and hold the parring button less than 3 seconds) to see the thermostat status.

Output call	LED indication
Idle	All LEDs are off.
Heating	Red LED illuminates for 1 second.
Cooling	Blue LED illuminates for 1 second.
Scanning Network	Red LED ashes for 0.25 seconds ON, 0.25 seconds OFF, 0.25 seconds ON, 0.25 seconds OFF, 0.25 seconds ON, 3.75 second OFF then cycle.
Device Pairing	Red and Green LED blink 0.25 seconds ON and 0.75 seconds OFF then cycle.
Identyfing	Green LED ashes 1 second On and 1 second OFF.

ERROR INDICATION

LED will start ashing automatic, when error occurred.

Error	LED indication
Lost Parent	All LEDs blink 0.25 seconds ON and 0.25 seconds OFF for 3 times every 30 seconds.
Lost Link with Paired device	All LEDs blink 0.25 seconds ON and 0.25 seconds OFF for 2 times every 30 seconds.
Lost link with Coordinator	All LEDs blink 0.25 seconds ON and 0.25 seconds OFF for 1 time every 30 seconds.
Low Battery	Blue LED ashes for 0.25 seconds ON, 9.75 seconds OFF then every 10 seconds.
Sensor Short/Open	Red LED ashes for 0.25 seconds ON, 9.75 seconds OFF every 10 seconds.
Zone occupied	Red LED ashes 0,25 seconds On and 0,25 seconds OFF 5 times

PROTECTION FUNCTION

Heat cut off
When the room temperature is over 36°C, the heating output will be turned off.
Cooling cut off
When the room temperature is under 4°C, the cooling output will be cut off.
Short cycle protection
ℹ When the cooling mode is enabled the minimum interval between On/OFF is 3 minutes.

CONTROL PATTERN – SPAN ± 0,5°C

Heating mode
The thermostat will start heating when the room temperature will get below the setpoint.
It will stop the Heating function when the room temperature is on set point or above.
Cooling mode
The thermostat will start cooling when the room temperature gets above the setpoint.
The thermostat will stop the Cooling function when the room temperature is on setpoint or below.

TECHNICAL SPECIFICATION

Model:	CFTW
Power Supply:	AAAA battery 1,5V (x2)
Temperature setpoint range:	5°C-35°C
Control algorithm:	Span +/- 0, 5°C
Storage temperature:	-20°C - 60°C
Ambient temperature:	0 °C - 45 °C
Humidity (Non condensed)	5 – 95 % RH
Communication protocol:	ZigBee 2,4GHz
Mounting:	Surface mounting
Degree of protection:	IP30
Valve/Frost protection:	Yes/Yes: 5°C
Heating and cooling:	Yes. Changeover by Wiring Centre
Dimensions (W x H x D)	86 x 86 x 19,5 mm