

# WIRING CENTRE DESCRIPTION

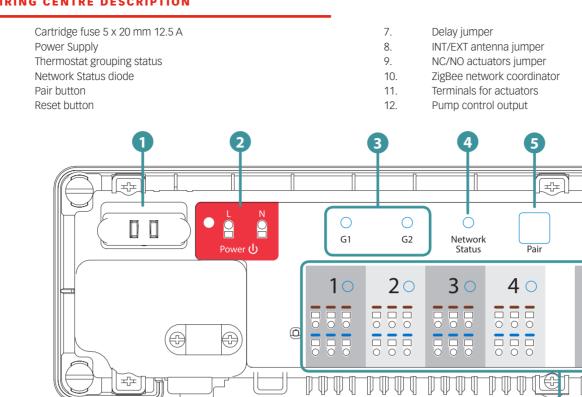
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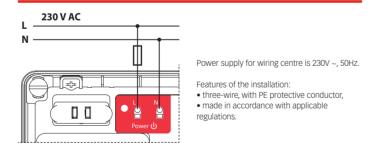
Note: Don't use the Coordinator with the Universal Gateway simultaneously! Universal Gateway

# 1. FUSE

Note: Fuse replacement should be done when the wiring centre is disconnected from power supply 230 V AC.

The mains fuse is located under the housing cover, at the main terminals and protects the wiring centre and devices powered by it. Use cartridge fast blow type 5 x 20 mm - nominal burn rate 12.5 A. To remove the fuse, lift the socket with a flat screwdriver and pull out the fuse.

#### 2. POWER SUPPLY



## **3. THERMOSTAT GROUPING STATUS**

This function is only available in Offline mode (together with the Coordinator) - it means MASTER thermostats will affect to SLAVE thermostats within G1 specific group, which is possible only when thermostats are paired with one KL08RF wiring centre and have been assigned to gr. 1 or gr. 2.

Note: Within one group there may be only one MASTER thermostat (programmable) and the rest must be SLAVE thermostats (non-programmable).

How it works: If all thermostats of a given group will operate in automatic mode, then each of the thermostats in a given group will work in the same way as the MASTER of this group. For example, if the MASTER thermostat of Group 1 according to it's programmed schedule maintains a comfort mode - all SLAVE type thermostats from Group 1 will also maintain the comfort mode (the temperature is set individually for every thermostat). Similarly, if the MASTER thermostat is set to Party or Holiday mode - SLAVE thermostats in his group will also work in these modes.

The grouping function is optional - thermostats do not have to be grouped, they can operate independently

#### 4. NETWORK STATUS DIODE

LED diode statuses

- (LED diode is blinking) - it means wiring centre is not connected to the network, but it is • ready for pairing with the Coordinator or the Universal gateway Netwo

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Reset

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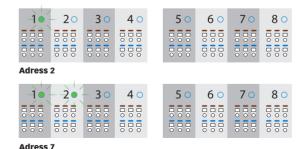
- (LED is steady lit) - it means wiring centre is added to the ZigBee network and paired with the Coordinator or the Universal Gateway Networ Status

#### 5. PAIR BUTTON

Functions of the Pair button:

- Checking the address of the wiring centre in the Zigbee network. To check the address of the wiring centre in the ZigBee network (when using more than one) press the Pair button. The wiring centre number is indicated by the number of LEDs at the zones:

Adress 1





Address 9 is indicated by lighting up 8 LEDs of all the zones and the Network Status I FD.



- The wiring centre reset (this function is described in detail on the second page of the manual).

# Wiring Centre RF

COSMO

BESSER LEBEN

Model: CFKL8



Quick Guide

#### COSMO GmbH

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#### INTRODUCTION

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The  $\ensuremath{\mathsf{CFKL8}}$  wireless wiring centre in combination with wireless thermostats such as  $\ensuremath{\mathsf{CFTPUP}}$  or CFTP provides comfortable and reliable heating control. It is equipped with the control outputs for the pump and boiler and has been designed to work with NC or NO actuators.

In Offline mode, communication with the wireless thermostats must be done through the coordinating unit, which is in the package together with the wiring centre. To work in Online mode (via the SALUS Smart Home app) CFKL8 must be connected to the Universal Gateway. In one ZigBee network (Online or Offline) up to 9 CFKL8 wiring centres can be connected. CFKL8 increases ZigBee network range.

#### **PRODUCT COMPLIANCE**

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

((p)) 2405-2480MHz; <14dBm

#### **SAFETY INFORMATION**

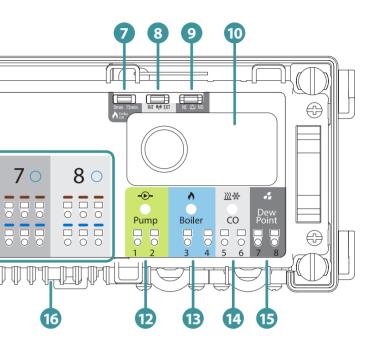
Use in accordance with the regulations. Indoor use only. Keep your device completely dry. Disconnect your device before cleaning it with a dry cloth. This accessory must be fitted by a competent person, and installation must comply with the guidance, standards and regulation applicable to the city, country or state where the product is installed. Failure to comply with the relevant standards could lead to prosecution.

# **TECHNICAL INFORMATION**

Power Supply	230 V AC 50 Hz
Max load	3 A
Inputs	CO terminal Dew point sensor (humidistat)
Outputs	Pump control Boiler control Terminals for actuators
Radio frequency	ZigBee 2,4 GHz
Dimensions	355x83x67 mm



- 13. Boiler control output
- 14. CO terminal
- 15. Dew point sensor input (humidistat) TS193683
- 16. External antenna connector CFA



#### 6. RESET BUTTON

- It is used to refresh the data, after moving jumpers 7,8 or 9. O Reset The Reset button does not remove the wiring centre from the ZigBee network.

# 7. DELAY JUMPER



Boiler off delay time.

 $\ensuremath{\textbf{Note:}}$  Pump (Pump output) and boiler (Boiler output) always starts 3 minutes after receiving the heating signal from any thermostats paired with wiring centre. Pump stops after 3 minutes, when the last thermostat stops sending demand for heat, while the heat source (Boiler) will turn off after the time set with the jumper.

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Jumper position change must be refreshed in the memory by pressing the Reset button (short press).

# 8. INT/EXT ANTENNA JUMPER



There is an option to connect the external antenna to the wiring centre If you use an additional antenna, place the jumper in the EXT position.

Jumper position change must be refreshed in the memory by pressing the Reset button (short press).

#### 9. NC/NO ACTUATORS JUMPER



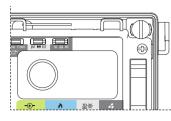
Select the type of the thermoelectric actuator connected to the wiring centre: NC - actuator normally closed NO - actuator normally opened

Jumper position change must be refreshed in the memory by pressing the Reset button (short press).

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# **10. ZIGBEE NETWORK COORDINATOR**

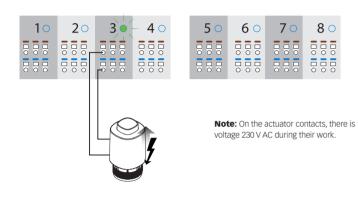


The ZigBee network coordinating unit is used for Offline mode and it's included with the wiring centre. It enables wireless control of all devices installed in one network. Within one network can be connected max 9 wiring centres. It means that if in the network there are more than one wiring centre, you can use one coordinator and put the remaining ones in a safe place.

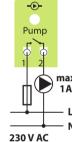
Note: Do not use the Coordinator with the Universal Gateway simultaneously.

#### **11. TERMINALS FOR ACTUATORS**

Wires of the thermoelectric actuators should be plugged into the self-locking connectors in the appropriate zones. You can connect 3 actuators directly to one zone. The current load of one zone is adapted to operate with up to 6 thermoelectric actuators with a power of 2 Watts. If there is a need to connect more than 6 actuators please use an additional relay to relieve the output of the zone.



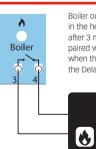
#### **12. PUMP CONTROL OUTPUT**



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Pump output - this is a volt free output (COM / NO) that controls the circulation pump in the heating / cooling system. The output closes (pump starts) always after 3 minutes after receiving the heating / cooling signal from any of thermostats paired with wiring centre. The output opens (pump stops) after 3 minutes, when the last thermostat stops sending heat / cold demand.

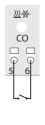
#### **13. BOILER CONTROL OUTPUT**

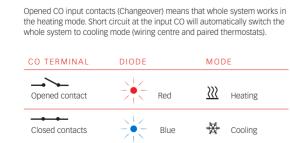


Boiler output - this is a volt free output (COM / NO) that controls the boiler in the heating system. The output closes and the boiler turns on but always after 3 minutes after receiving the heating signal from any of thermostats paired with wiring centre. The output opens and the boiler switches off when the last thermostat stops sending heat demand (after the time set on the Delay jumper).

Boiler output is inactive in the cooling mode.

#### **14. CO TERMINAL (INPUT)**





#### **15. DEW POINT SENSOR INPUT (HUMIDISTAT)**

Dew point sensor input is active only in cooling mode (with closed CO contacts).

> Shorting the contacts at the dew point sensor input (too high humidity) causes switching off all zones in the wiring centre and Pump control outputs.

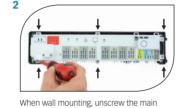
#### **16. EXTERNAL ANTENNA CONNECTOR**

The external antenna connector is located underneath the wiring centre under zones 7 and 8. After connecting an additional antenna, place the jumper in the EXT position.

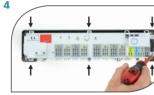
Jumper position change must be refreshed in the memory by pressing the Reset button (short press).

#### MOUNTING





part of the housing (see picture). When mounting on the DIN rail tilt the hooks on the back of the housing.





Connect the power cord.



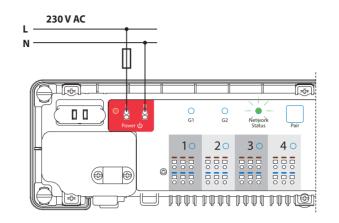


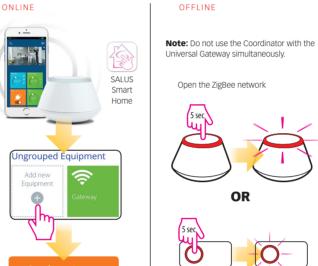
After finishing installation mount the top

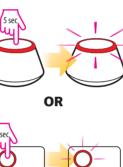
cover of wiring centre.

## **INSTALLATION**

1 Connect the wiring centre to the 230 V AC power supply. The Network Status LED will blink.

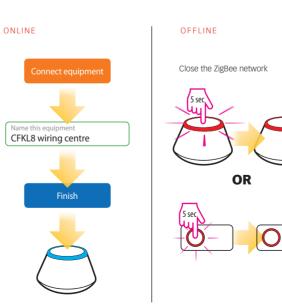






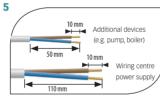
3 Wiring centre will connect to the network automatically. The Network Status LED will turn solid green

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Power	ا و ل		O G1	O G2	Network Status	Pair

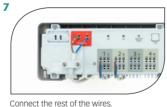


Remove the top cover of the wiring centre. 3

Attach the back of the wiring centre to the wall.



Remove the appropriate section of insulation from the wires.



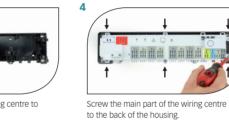
Make sure that all the wires are properly

connected then connect the power cord to

the 230 V AC power supply - red LED diode

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will light up.



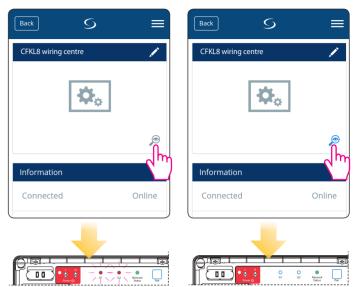
#### **IDENTIFICATION OF THE WIRING CENTRE**

To identify the wiring centre in the ZigBee network, follow the steps below:

#### IN ONLINE MODE (USING THE SALUS SMART HOME APP):

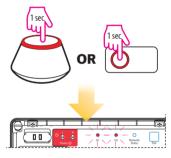
#### To start identification

#### To stop identification



#### IN OFFLINE MODE:

To start identification



To stop identification

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#### FACTORY RESET

To restore the factory settings, press and hold the Pair button for 15 seconds. G1 and G2 diodes will turn red and go out.

Note: If you restore the factory settings of the wiring centre, all paired devices will be removed from the ZigBee network - you will have to synchronize them again.

