

### Wired Dial Room Thermostat Heating / Cooling 230 V

Model: CRT230HKUP



Quick Guide

### INTRODUCTION

**CRT230HKUP** is a 230V dial room thermostat which offers simple temperature control of your heating system.

# 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 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.

# TECHNICAL SPECIFICATION

Power supply	230VAC±10%, 50/60Hz
Output rating	3(1)A
Temperature range	-5.0°C - 50.0°C
Setting range	5.0°C - 30.0°C
Frost Protection setpoint	5.0°C
System Control	Heating / Cooling
Mounting	Flush Mount
IP Protection class	IP30
Front Case thickness [mm]	15.5
Rear Case dimensions [mm]	50x49x26.9

# TERMINALS DESCRIPTION

TERMINAL	DESCRIPTION
N	230VAC Neutral
L	230VAC Live
NSB	Night Set Back Input
SL	230VAC Switched Live Output

### **BOX CONTENT**





Thermostat Front Case

Thermostat Rear Case



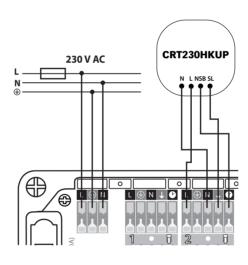


2 x fixing screws

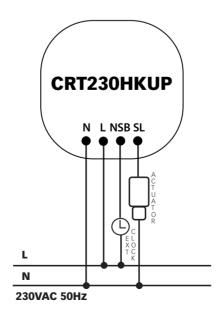
### WIRING DIAGRAM

You can wire the thermostat directly to the **CKL6230N** wiring centre or to an actuator (purchased separately).

#### CKL6230N WIRING CENTRE



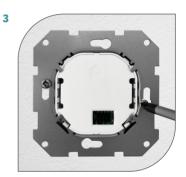
# ACTUATOR



# MOUNTING











# SYSTEM CONTROL

Using  ${\bf CRT230HKUP}$ , you can control either Heating or Cooling systems.

To change between Heating and Cooling, please use the slide switch on the right side of the termostat.

HEATING







# **JUMPERS**



Different features of the  $\mbox{\bf CRT230HKUP}$  thermostat can be selected using the jumpers.

The jumpers can be found on the back side of the Front Case. You can set the jumpers before attaching the Front Case to the Rear Case or you can detach the Front Case from the Rear Case to change the jumper settings.

By default, the jumpers are set as shown in the image above.



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#### 1. ACTUATOR NO / NC

You can select the Actuator type: NO (Normally Open) or NC (Normally Closed).

ACTUATOR TYPE	SL OUTPUT	ACTUATOR VALVE	WATER FLOW
NO	230V	Close	No flow
	OV	Open	Flow
NC	230V	Open	Flow
	OV	Close	No flow

#### 2. SPAN

You can adjust the temperature SPAN by moving the jumper either to 0.5°C ( $\pm$ 0.25°C) position or 1.0°C ( $\pm$ 0.5°C) position.

### 3. NSB (NIGHT SET BACK)

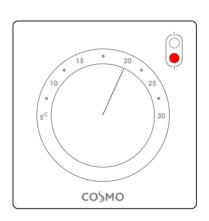
If there is NSB signal, you can choose a temperature reduction between 2°C or 4°C.

### 4. VALVE PROTECTION

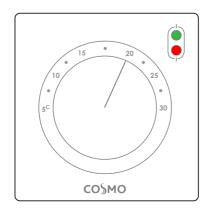
If Valve Protection is enabled (Aktiv), then  ${\bf CRT230HKUP}$  will additionally send 5 minute pulse ON signal to actuator, once a week (7 days x 24 hours).

### LED INDICATION

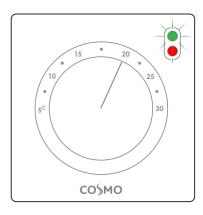
### HEATING MODE: NO CALL



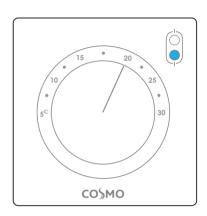
# HEATING MODE: CALL FOR HEATING



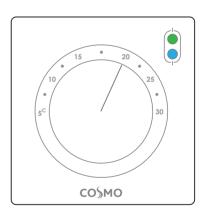
#### HEATING MODE: FAILURE - REPLACE THERMOSTAT



#### COOLING MODE: NO CALL



### COOLING MODE: CALL FOR COOLING



# COOLING MODE: FAILURE - REPLACE THERMOSTAT

