

## **TAF234 – Basic room thermostat 230V & 24V**

COMAP proposes a new control system for heating and cooling underfloor. Consisting of a 6 or 10-channels controller (MCF234), analogic (TAF234) or electronic (TEF234) room thermostats and thermal actuators (TE24) to control the various circuits, it enables optimum temperature control, by area or room.



### **Application**

For individual unitary control (2-point) in residential and business spaces with Triac output for up to 6 thermal actuators. The room thermostat can be used as a standalone product or together with the MCF234 electric distributor for Biofloor underfloor heating systems.

### **Description**

- Electronic room thermostat for 24 V or 230 V for heating.
- Silent-switching Triac output on 24 V types.
- Easy to wire up.
- NTC sensor.
- With input for lowering the room temperature
- Modern design with ergonomic setpoint adjuster.
- With restriction of temperature setting range
- Electrical connection in baseplate with screw terminals.
- With automatic frost protection facility at 6 °C and valve protection function.

Item code	Description
<b>C411012001</b>	Basic thermostat, Heating, 230V Biofloor
<b>C411013001</b>	Basic thermostat, Heating, 24V Biofloor

## Technical features

- Housing: Thermoplastic PC+ABS - Lower section: Signal white (RAL9003)
- Cover: White (RAL 9016)
- Fitting: Wall, recessed junction box
- Weight : 90g

	24V	230V
Power consumption	<0,3W in idle state	
Fuse	T1A	T2AH
Setting range	10...28 °C	
Decrease	2K	
Switching difference	± 0,5 K	
Ambient temperature	0...50 °C	
Ambient humidity	5...80% rh, no condensation	
Measuring element	NTC	
Outputs		
Number of actuators	max. 4 pcs. parallel	max. 6 pcs. parallel
Switching element	Triac	Relay
Switch rating	1A	2A (0.8A inductive)
Inputs		
ECO input	voltage detection 24 V	voltage detection 230 V
Protection IP	IP 20 (EN 60529)	
Protection class	III (EN 60730)	II (EN 60730)
Connection terminals	Screw terminals 0,22 à 1,5 mm <sup>2</sup>	
Connection cable	Rigid : NYM-J/NYM-O (max. 5 x 1,5 mm <sup>2</sup> )	

## **Description of operation**

### **Main operation**

For individual unitary control (2-point) in residential and business spaces with relay output on 230V versions for up to 6 thermal actuators and Triac outputs on 24V for up to 4 thermal actuators.

- The room temperature is measured by a temperature sensor and compared with the current setpoint.
- Depending on the control offset, the heating in the room is increased or reduced.
- If there is a heat requirement, the thermal actuator is activated.
- These room thermostats are suitable for NC thermal actuators.

### **Decrease**

- In reduced mode, the defined temperature is decreased by 2 K. The room thermostat detects a voltage supplied by the electrical distributor or an external timer.

### **Valve protection function**

- The valve protection function is activated at 14-day intervals for 6 minutes if no temperature control has taken place (output open). The actuator is activated and opens the valve.

### **Frost protection facility**

- The integrated frost protection facility is fixed at 6°C and prevents pipes from freezing during periods with no regulation.

### **Intended use**

This product is only suitable for the purpose intended by the manufacturer, as described in the “Description of operation” section.

All related product documents must also be adhered to. Modifying or converting the product is not admissible.

### **Engineering and fitting notes**

Place of installation approx. 1.5 m above the floor on an interior wall. The location must be protected from direct sunlight and other heat sources, e.g. televisions, lamps or radiators, and also from draughts.

### **Standards and directives**

CE conformity according to:

EMC Directive 2004/108/EC

- EN 61000-6-1
- EN 61000-6-3

Low-voltage directive 2006/95/EC

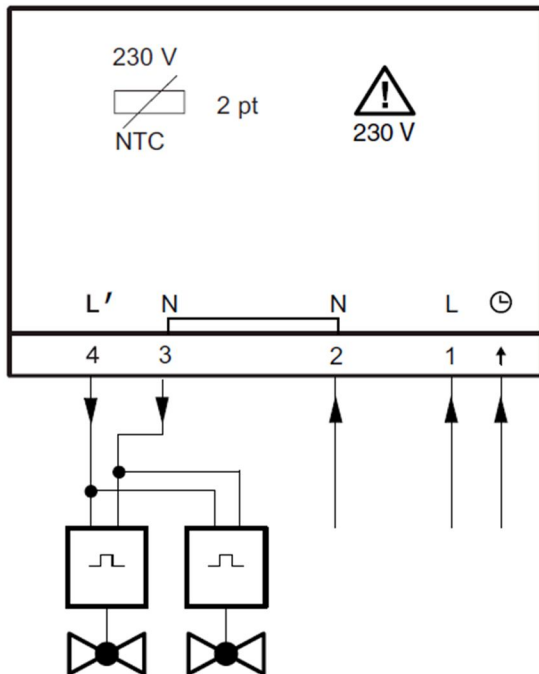
- EN 60730-1
- EN 60730-2-9

### **Disposal**

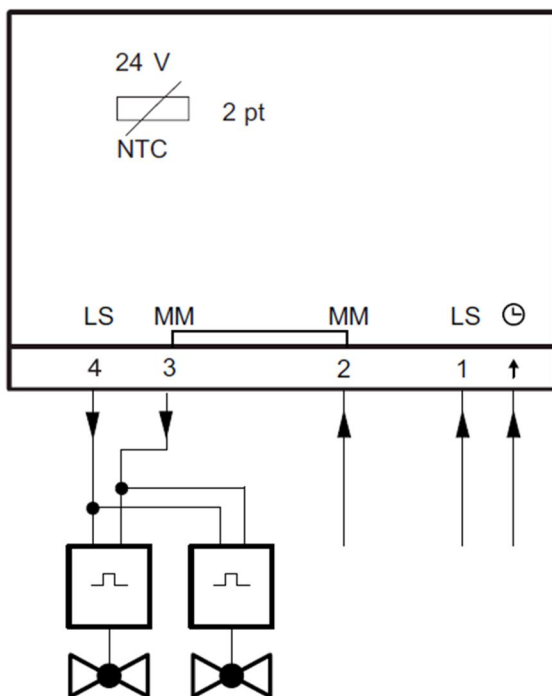
The local, currently valid laws must be observed when disposing of the device.

## Connection diagram

230V - C411012001

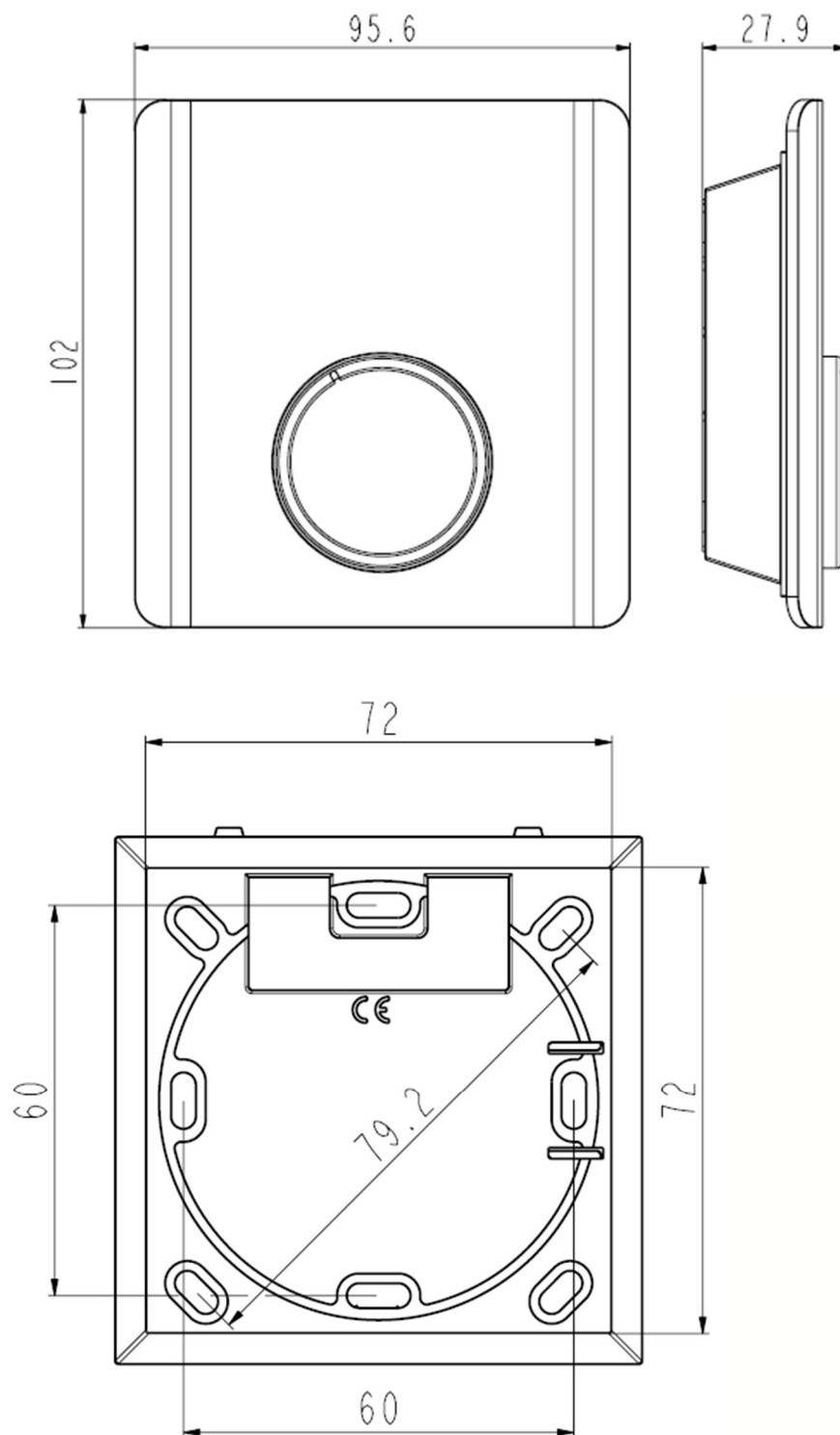


24V - C411013001



## Dimension drawing

Basic room thermostat, heating - TAF 234



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