

### Datasheet

Subject to technical alteration  
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### » APPLICATION

The flat room thermostat is designed for heating or cooling via a 2-pipe system in commercial, industrial and residential buildings and also underfloor heating applications. The set point is set using the large rotary switch.

### » SECURITY ADVICE – CAUTION



The installation and assembly of electrical equipment should only be performed by authorized personnel.

The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.



**CAUTION! Risk of electric shock due to live components within the enclosure, especially devices with mains voltage supply (usually between 90..265 V).**

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

### » NOTES ON DISPOSAL



As a component of a large-scale fixed installation, Thermokon products are intended to be used permanently as part of a building or a structure at a pre-defined and dedicated location, hence the Waste Electrical and Electronic Act (WEEE) is not applicable. However, most of the products may contain valuable materials that should be recycled and not disposed of as domestic waste. Please note the relevant regulations for local disposal.

## » REMARKS TO ROOM SENSORS

### Location and Accuracy of Room Sensors

The room sensor should be mounted in a suitable location for measuring accurate room temperature. The accuracy of the temperature measurement also depends directly on the temperature dynamics of the wall. It is important, that the back plate is completely flush to the wall so that the circulation of air occurs through the vents in the cover. Otherwise, deviations in temperature measurement will occur due to uncontrolled air circulation. Also the temperature sensor should not be covered by furniture or similar devices. Mounting next to doors (due to draught) or windows (due to colder outside wall) should be avoided.

The temperature dynamics of the wall will influence the temperature measurement. Various wall types (brick, concrete, dividing and hollow brickwork) all have different behaviours with regards to thermal variations.

### Surface and Flush Mounting

The temperature dynamics of the wall influence the measurement result of the sensor. Various wall types (brick, concrete, dividing and hollow brickwork) have different behaviours with regard to thermal variations. A solid concrete wall responds to thermal fluctuations within a room in a much slower way than a light-weight structure wall. Room temperature sensors installed in flush boxes have a longer response time to thermal variations. In extreme cases they detect the radiant heat of the wall even if the air temperature in the room is lower for example. The quicker the dynamics of the wall (temperature acceptance of the wall) or the longer the selected inquiry interval of the temperature sensor is the smaller the deviations limited in time are.

## » TECHNICAL DATA

|                             |                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------|
| Measuring values            | temperature                                                                                                       |
| Output switching contact    | normally closed contact, heating<br>max. 230 V ~ / 2 A (resistive, non-floating)                                  |
| Power supply                | 230 V ~                                                                                                           |
| Operating temperature range | max. permissible operating temperature 0..+50 °C                                                                  |
| Sensor                      | bimetal                                                                                                           |
| LED (D)                     | heating "ON"                                                                                                      |
| Control function            | setpoint adjustment                                                                                               |
| Functions                   | heating                                                                                                           |
| Set point range             | +5..+30 °C                                                                                                        |
| Switching values            | output switching contact max. 460 W, switching hysteresis 0,5 K<br>max. permissible temperature change rate 4 K/h |
| Enclosure                   | ABS, pure white brilliant                                                                                         |
| Protection                  | IP30 according to EN 60529                                                                                        |
| Cable entry                 | rear entry                                                                                                        |
| Connection electrical       | terminal block, max. 1,5 mm <sup>2</sup>                                                                          |
| Ambient condition           | max. 85% rH non-condensing                                                                                        |
| Weight                      | ca. 60 g                                                                                                          |
| Mounting                    | surface mounted on flush-mounting box (Ø=60 mm)                                                                   |

## » PRODUCT TESTING AND CERTIFICATION



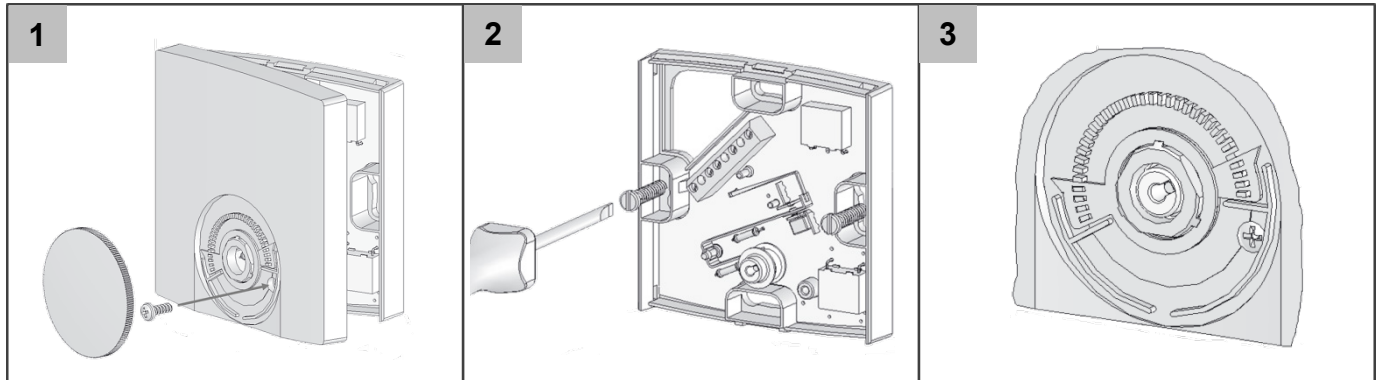
### Declaration of conformity

The declaration of conformity of the products can be found on our website <https://www.thermokon.de/>.

## » MOUNTING ADVICES

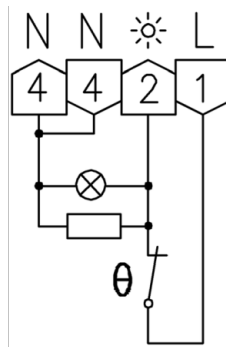


The device is able to resist to the types of dirt or dust that normally occur in offices and living spaces. Excessive volumes of dust and dirt produced during installation or during renovation works may soil the contacts and can lead to a breakdown of the device.



1. Always make sure to pull off the knob only prior to removing the housing cover. The adjusting knob must neither be put on, nor be pulled off without having put on the housing cover beforehand.
2. As there is only little space available for its wiring, it is recommended to install the device on an UP box. The venting slots that point to the wall must not be covered. If otherwise, there is danger that the control operations performed by the device become incorrect.
3. Below the rotary knob, the setting flag for the minimum temperature value (left, blue) and for the maximum temperature value (right, red) are located.

## » CONNECTION PLAN



**Output heating:**

For currentless closed valve actuator.

**LED:**

Signalising heating "ON".

## » DIMENSIONS (MM)

