Single room temperature controller CosiTherm® - wired

Benefits

- Temperature controller for the connection of thermal actuators
- For manifold systems for heating and cooling
- Extremely flat room temperature sensor with a height of 12.5 mm
- Room temperature sensor with wire connection
- Timer module for programming temperature reduction, pump operating time and valve protection function

Application

Controls the temperature of individual rooms in connection with manifold systems for heating and cooling.

Versions

	Part no.
Base module BM	78112
Controller module D2	78114
Controller module D6	78115
Timer module UM for base module BM	78113
Wireless module for timer module FMA with external antenna, for timer module UM	78122

Blue part no. = in-stock items

Description

The base version of the single room temperature controller CosiTherm® wired consists of a base module, at least one controller module with two or six independent control circuits and a corresponding number of room temperature sensors. The controller modules can be interconnected in a modular way to account for the number of control circuits/rooms. One room temperature sensor is required per control circuit; it is wired to the controller module. The room temperature sensor measures the actual temperature in the room. The reference temperature is adjusted via the rotary knob of the room temperature sensor. The controller module compares the actual temperature and the reference temperature and controls the volume flow of the heating/cooling water via the thermostatic actuators of the manifold system.
An optional timer module with display and an integrated hundred-year calendar can be plugged into the base module. It features two independently programmable switching channels for temperature reduction, nine programmable memory blocks and a valve and pump protection function. The additional pump running time is adjustable. The terminals of the controller modules are colour-coded for easy assignment to the wires of the thermostatic actuators; in conjunction with the DIN rail snap connectors at the rear of the housing, this facilitates installation.

Technical specifications

Connections
Max. 2 room temperature sensors and 8 actuators
Max. 6 room temperature sensors and 24 actuators

Operating temperature range
Ambient: -10/+60 °C
Storage: -10/+60 °C

Base module BM

Supply voltage
AC 230 V, 50 – 60 Hz

Nominal power
1 VA

Housing
Plastic housing (PC/
ABS)
Colour: Light grey, similar to RAL 7047
W x H x D: 122 x 92 x 45 mm
Degree of protection: IP 20 (EN 60529)

Weight
215 g

Controller module

Supply voltage
AC 230 V, DC 5 V (via base module BM)

Nominal power
0.1 W
0.3 W

Housing
Plastic housing (PC/
ABS)
W x H x D
73 x 92 x 45 mm
162 x 92 x 45 mm
Degree of protection: IP 20 (EN 60529)

Weight
130 g
260 g

Timer module UM

Functions
Automatic switching between daylight saving time and winter time
(CEST)

Temperature reduction
4 K
Switching channels: 2, independently programmable
Memory blocks: 9 independently programmable

Valve/pump protection function
0/15 min, adjustable

Additional pump running time
0/15 min, adjustable

Supply voltage
DC 3.3 V (via base module BM)

Nominal power
3 mW

Housing
Plastic housing (PC/
ABS)
Colour: Light grey, similar to RAL 7047
W x H x D: 37 x 93 x 28 mm
Degree of protection: IP 30 (EN 60529)

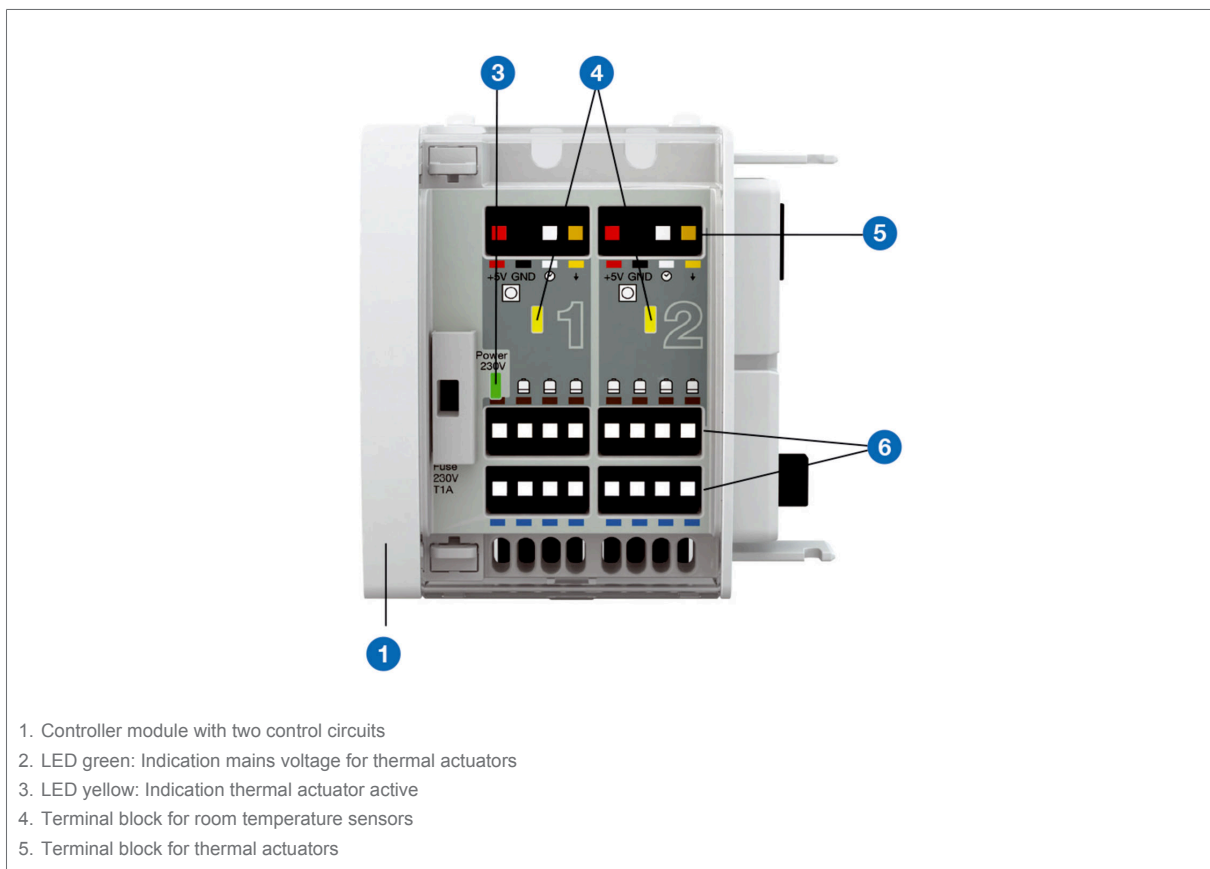**Weight**
33 g

Dimensions (W x H x D)
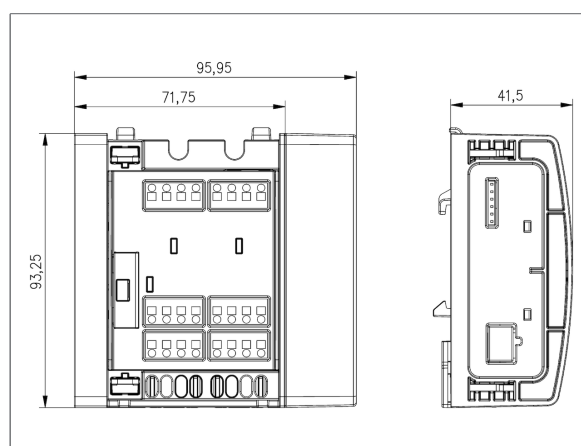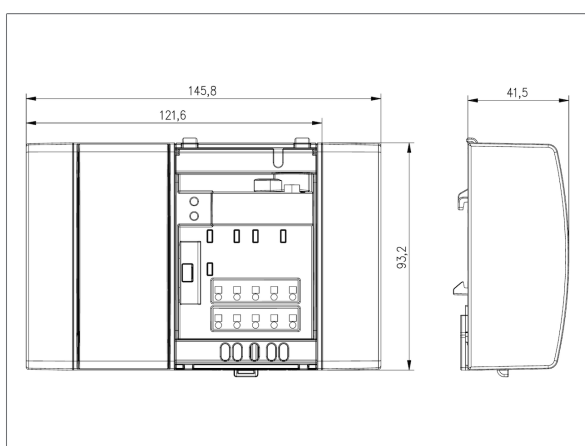37 x 22 x 6 mm

Weight
3.5 g

EnOcean® wireless
EEP: A5-30-04
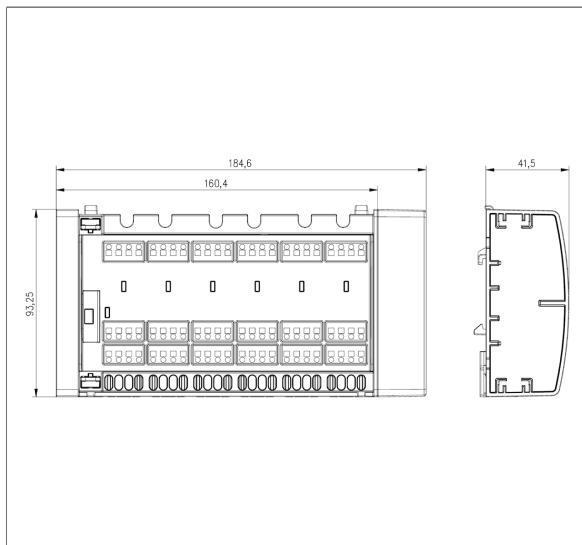Frequency: 868.3 MHz
Transmission power: Max. 10 mW

Detail views

1. Controller module with two control circuits
2. LED green: Indication mains voltage for thermal actuators
3. LED yellow: Indication thermal actuator active
4. Terminal block for room temperature sensors
5. Terminal block for thermal actuators

Technical drawings

Base module BM

Timer module UM