

## 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

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; in conjunction with the DIN rail snap connectors at the rear of the housing, this facilitates installation.



## Technical specifications

### Connections

Base module BM: Max. 9 controller modules D2 or 3 controller modules D6

Controller module D2: Max. 2 room temperature sensors and 8 actuators

Controller module D6: Max. 6 room temperature sensors and 24 actuators

### Operating temperature range

Ambient: -10/+60 °C

Storage: -10/+60 °C

### Base module BM

#### Functions

Power supply of the room temperature sensors (DC 5 V) and thermostatic actuators (AC 230 V),  
Switchover of the system to "Heating" or "Cooling",  
Control of the heating/cooling pumps

#### 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

#### Functions

Comparison of actual and reference temperatures,  
Control of heating/cooling water via connected thermostatic actuators,  
Switchover of the system to "Heating" or "Cooling",  
Control of the heating/cooling pumps

#### Supply voltage

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

#### Nominal power

Controller module D2: 0.1 W

Controller module D6: 0.3 W

#### Housing

Plastic housing (PC/ABS)

W x H x D

Controller module D2: 73 x 92 x 45 mm

Controller module D6: 162 x 92 x 45 mm

Degree of protection: IP 20 (EN 60529)

### Weight

Controller module D2: 130 g

Controller module D6: 260 g

### Timer module UM

#### Functions

Time data: Date, time, weekday (leap year detection),  
Automatic switching between daylight saving time and winter time (CEST),

Adjustment of temperature reduction,  
Adjustment of additional pump running time,  
Valve and pump protection function adjustment

#### 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

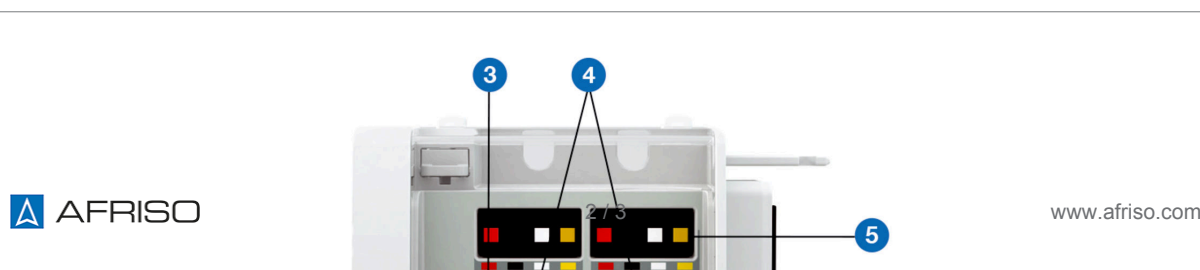
Degree of protection: IP 30 (EN 60529)

#### Weight

33 g

### Wireless module for timer module FMA

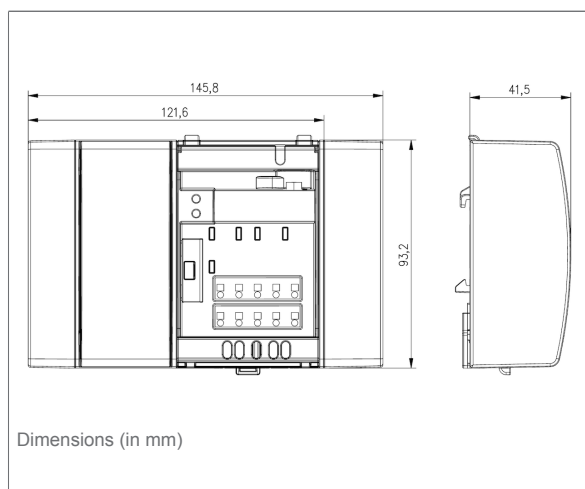
## Detail views



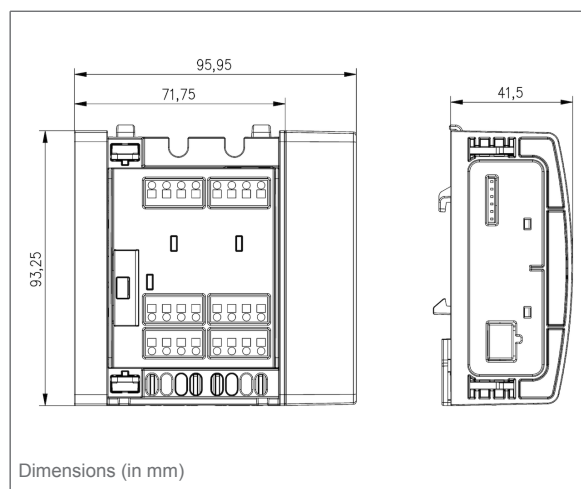


## Technical drawings

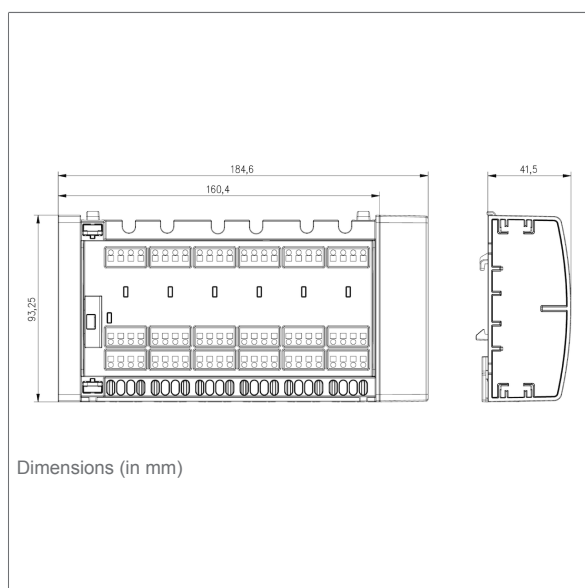
**Base module BM**



**Controller module D2**



**Controller module D6**



**Timer module UM**

