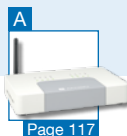# Single room temperature controller CosiTherm® Wireless

- **Temperature controller for the connection of thermal actuators**
- **For manifold systems for heating and cooling**
- **Worldwide access via AFRISOhome gateway**

Application

Controls the temperature of individual rooms in connection with manifold systems for heating or cooling. EnOcean® wireless technology for integration into building automation systems.

Description

The base version of the single room temperature controller CosiTherm® Wireless 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; the standard version is battery-less and connected to the controller module via the EnOcean® wireless technology. 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 or via the app AFRISOhome. The controller module compares the actual temperature and the reference temperature and controls the volume flow of the heating/cooling water via the thermal actuators of the manifold system.

The base module 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 thermal actuators; in conjunction with the DIN rail snap connectors at the rear of the housing, this facilitates installation.

With an AFRISOhome gateway, it is possible to remotely check and, if necessary, adjust the room temperatures via the AFRISOhome app (for example, when coming back from winter vacation). This flexible remote control of the room temperature combines multiple benefits: you can increase living comfort and reduce energy costs.

In conjunction with additional AFRISO products with EnOcean® wireless technology, the user can configure a whole range of fully customisable, extensible applications.

Functions

Base module BM
- Power supply of the thermal actuators (AC 230 V)
- Switchover of the system to "Heating" or "Cooling"
- Control of the heating/cooling pumps

Controller module
- Comparison of actual and reference temperatures
- Control heating/cooling water via connected thermal actuators
- Connection of two or six control circuits, extensible
- Connection to room temperature sensors EnOcean® wireless technology

Single room temperature controller CosiTherm® – wireless

Technical specifications

Connections

Base module BM
Max. 9 controller modules F2 or
3 controller modules F6

Controller module F2
Max. 2 room temperature sensors and
8 actuators
as well as external antenna

Controller module RM F6
Max. 6 room temperature sensors and
24 actuators as well as external antenna

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

EnOcean® wireless
Frequency: 868.3 MHz
Transmission
power: Max. 10 mW
Range: 10 to 30 m (depending on room
                    arrangement and materials in
                    the building)

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
Controller module F2:   0.3 W
Controller module F6:   0.5 W

Housing (W x H x D)
Plastic housing PC/ABS
Controller module F2:73 x 92 x 45 mm
Controller module F6:162 x 92 x 45 mm
Degree of protection:IP 20 (EN 60529)

Weight
Controller module F2:   130 g
Controller module F6:   260 g

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See operating instructions for detailed information on the range of the EnOcean® wireless module.
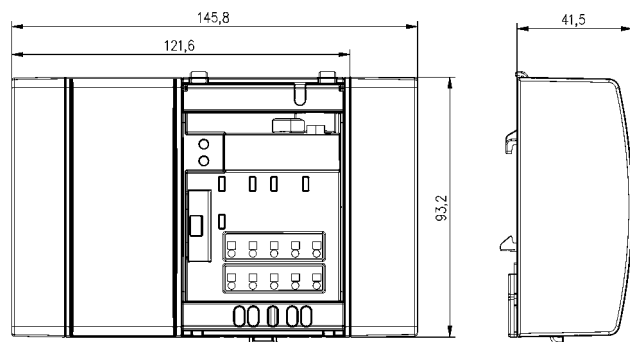
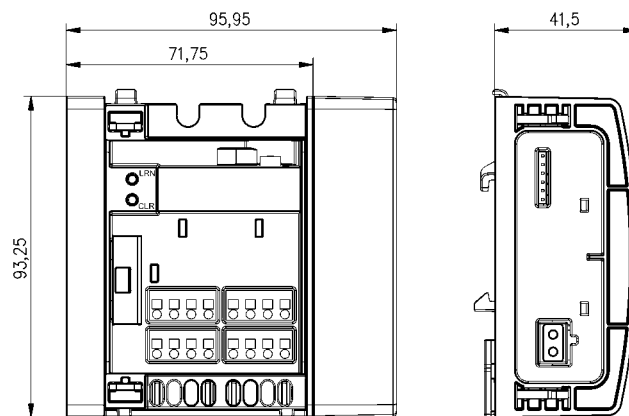| DG: G, PG: 4	Part no.	Price €
Base module BM	**78112**	
Controller module F2A with external antenna, for 2 control circuits	**78123**	
Controller module F6A with external antenna, for 6 control circuits	**78124**	

Single room temperature controller CosiTherm® – wireless

Types and dimensions (mm)

Base module BM

145,8
121,6
41,5
93,2

Controller module F2

95,95
71,75
41,5
93,25
LRN
CLR

Controller module F6

184,6
160,4
41,5
93,25
LRN
CLR

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AFRISO