Single room temperature controller CosiTherm® Wireless
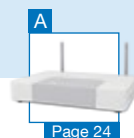
enocean®   **NEW**

- **For manifold systems for heating and cooling**
- **Timer module for programming temperature reduction, pump operating time and valve protection function**
- **Worldwide access via AFRISO Gateway**

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

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 one of the apps AFRISOhome or AFRISOindustry. 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.

An optional timer module with display and an integrated hundred year calendar can be plugged into the basic 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 thermal actuators; in conjunction with the DIN rail snap connectors at the rear of the housing, this facilitates installation.

With an AFRISO Gateway, it is possible to remotely check and, if necessary, adjust the room temperatures via the AFRISO apps (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
- Volume flow control heating/cooling water via connected thermal actuators
- Connection of two or six control circuits, extensible
- Connection to room temperature sensors EnOcean® wireless technology

Time module (option)
- Timing: Date, time, weekday (leap year detection)
- Temperature reduction adjustment
- Additional pump running time adjustment
- Valve and pump protection function adjustment

Timer module (option) for programming and display of date, time and weekday

AFRISO

Single room temperature controller CosiTherm® – wireless

enocean® **NEW**

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 optional external antenna

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

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

EnOcean® wireless
Frequency: 868.3 MHz
Transmission power: Max. 10 mW
Transmission cycle: 2.5 minutes
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
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

Time module (option)

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

**Valve and pump protection function/
additional pump running time**
0/15 min, adjustable

Supply voltage
DC 3.3 V (via base module BM)

Nominal power
3 mW

Housing (W x H x D)
Plastic housing ABS
W x H x D: 37 x 93 x 28 mm
Degree of protection: IP 30 (EN 60529)

Weight
33 g

DG: G	Part no.	Price €
Base module BM	**78112**	
Controller module F2 for 2 control circuits	**78116**	
Controller module F6 for 6 control circuits	**78117**	
Controller module F2A with external antenna, for 2 control circuits	**78123**	
Controller module F6A with external antenna, for 6 control circuits	**78124**	
Room temperature sensor FT with photovoltaic cell (temperature)	**78111**	
Room temperature sensor FTF with photovoltaic cell (temperature, humidity)	**78119**	
Accessories		
Timer module UM for base module	**78113**	
Wireless module time FM for timer module UM	**78121**	
Wireless module time FMA with external antenna, for timer module UM	**78122**	