RTDSCEC

ELECTRONIC ROOM TEMPERATURE THERMOSTAT
Digital-control for wired control of underfloor heating/cooling

Overview

Main features

- Room temperature control
- Wired transmission of the set temperature and the measured temperature
- Wired input for switching between heating and air conditioning
- Wired input corresponding to the reduction of the temperature control (Eco mode): lowering of the Comfort Mode Temperature

Application

- Underfloor heating / cooling
- Electric radiator
- Ventilation device

Product + points

- **Sober design,** suitable for traditional or contemporary interiors
- **Practical:** the product has a small footprint
- **Wide display screen,** blue backlighting
- **Ergonomic settings:** 5 keys for intuitive use

Functional specifications

Use

Desired temperature	Adjustable from +5°C to +30°C, default setting : 21°C
Operating modes	Auto, Comfort, Eco, Frost protection, Standby mode
Setting of the ECO lowering	**Preset to -3°C,** adjustable from -1°C to -5°C by 1°C steps
Frost protection mode temperature setting	**Preset to +7°C,** adjustable from +5°C to +10°C by 0,5°C steps
Safety	- **Child safety:** keypad locking - **Settings safety:** - Restricted settings in respect of a minimum temperature setpoint - Restricted settings in respect of a maximum temperature setpoint
Display screen	Viewing of settings, of measured, set temperature and keypad locking and of battery status

Installation

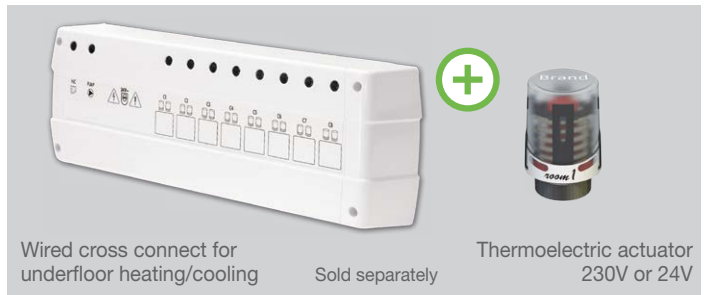| |
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| Intallation on a junction box |
| Connection to thermoelectric actuators or wiring box dedicated to underfloor heating/cooling system |
| Manual system test: override of the outputs (heating switched or put into heating standby mode) |

Advanced settings

Language	English, French, Italian or German
Temperature unit	Degrees Celsius or degrees Fahrenheit
Regulation adjustment according to type of use	Can be used in conjunction with an underfloor heating/cooling system, an electric radiator or a ventilation system
Configuring the output according to thermoelectric actuators	**Suitable for thermoelectric actuators NO (normally open at rest) or NC (normally closed at rest), (NC default)**
Configuration of the temperature-lowering input	Can be used to lower the Comfort mode setpoint temperature by 3°C or to switch the system to Frost protection mode
Max. setpoint temperature	**Preset to +30°C,** adjustable from +5°C to +30°C
Min. setpoint temperature	**Preset to +5°C,** adjustable from +5°C to +30°C
Restoring factory settings	5 secondes minimum to restor factory settings

Expert settings

Temperature adjustment	Ambient sensor calibration

Wired cross connect for
underfloor heating/cooling   Sold separately

Thermoelectric actuator
230V or 24V

Technical specifications

Dimensional and finish specifications

Height	99 mm
Width	90 mm
Depth	26 mm
Color	White RAL 9010
Net weight	0,2 Kg

Power supply

Operating voltage	24VAC or 230VAC +/-10%, 50Hz
Typical power consumption	1W max. under nominal voltage
Electronic output	24VAC +/- 10%, 50Hz, 0.7A max. or 230VAC +/-10%, 50Hz, 1A max.
Connection	By means of clamp terminals for cables with 0.5 square mm to 1.5 square mm cross-sections

Control

Control type	PID

Environment

Protection rating	IP20
Class	Class II
Operating temperature	0°C to +50°C
Storage temperature	-10°C to +50°C
Max. humidity level	85% at +25°C (without condensation)

Applicable directives

	230V	24V
EMC	2014/30/EU	2014/30/EU
LVD	2014/35/EU	-
RoHS	2011/65/EU	2011/65/EU

Applicable standards

LVD	EN60730-1 ; EN60730-2-9 ; EN62311
EMC	EN60730-1 ; EN60730-2-9
RoHS	EN50581
Manufacturing	On certified site ISO 9001 V2008

Product codes

Codes	References
RTDSCECIMHA	Wired digital-control thermostat, with ECO and CO inputs, white, 230V AC
RTDSCVECIMHA	Wired digital-control thermostat, with ECO and CO inputs, white, for 24V underfloor heating/cooling system

Product customization (design features) possible. Please contact us.

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