



ELECTRONIC THERMAL
CONTROL SYSTEM
FOR RADIATORS
RADIO WAVE system
WiCal®

CALEFFI
Hydronic Solutions



Heating



Engineered components for modern systems





FUNCTIONS AND FEATURES

- The RADIO WAVE system, consisting of a regulation controller and an electronic control head for radiator valves, allows independent control of each room.
- Actual temperature reading via a sensor built into the control head or fitted externally in the room.
- The controller allows wireless management of devices in up to 8 different zones, for a maximum of 32 radiators.
- Easy and quick linking of wireless devices for rapid installation.
- The controller allows daily and weekly time band programming with three operating modes: automatic, saving and holiday.
- The click button, wireless switch transmitter without battery, allows remote change of the controller operating mode.






PRODUCT RANGE

	Electronic radio wave control head. For thermostatic and convertible radiator valves.	CODE 210510
	Radio wave multi-zone thermal controller for managing electronic control heads.	CODE 210100

ACCESSORIES

	Radio wave ambient temperature sensor. For controlling the temperature in each zone or room.	CODE 210001
	Click switch - Radio wave and battery-less switch transmitter.	CODE 210006

ACCESSORIES

	Radio wave 1 st and 2 nd level signal repeater with plug for power output.	CODE 210011
	1 st and 2 nd level wireless signal repeater with antenna. Recessed or false ceiling version.	CODE 210010
	Radio signals checking and validation tester	CODE 210007
	Radio wave open window sensor. For controlling the temperature in each zone or room.	CODE 210009
	GSM interface module for remote control of WiCa®, complete with room temperature probe.	CODE 210015

OPERATING PRINCIPLE AND CHARACTERISTICS



AMBIENT TEMPERATURE SENSOR
Keeps the control of the ambient temperature of a single zone or room in case of difficult temperature detection by the electronic control head due to installation (for example behind radiator cover).



THERMAL CONTROLLER
Thermal controller, 24 V (dc) supplied, manages the temperature of rooms by controlling the electronic control heads installed on the valves of each heating body. The controller can manage up to 8 zones which can control up to 4 actuators each (therefore up to 32 actuators can be managed).



Automatic window opening detection
The controller can interface with window opening detection sensors in order to control the valves in the room accordingly.

The electronic control head, AA 1,5 V battery operated, can be easily bound to the controller via touch buttons.



Operating mode

Automatic: according to time and daily program as set for each zone.
Saving: maintenance of programming used in automatic mode, with temperature offset of -3°C.
Holiday: programming shutdown for a specific period of absence.

Anti-freeze function

The anti-freeze function is always enabled.

Heat generator control

The controller has an internal relay for automatically switching the heat generator ON and OFF in accordance with the set programming.

REFERENCE DOCUMENTATION

210 series

- Technical brochure 01263



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