



C800WIFIOTRQ

OPENTHERM® WI-FI SMART REMOTE CONTROL FOR HEAT GENERATORS

- “Universal” remote control with OpenTherm® communication protocol
- Suitable to manage heating and sanitary hot water systems for domestic use
- WiFi connection
- Batteries or 230Vac power supply
- V or VI Erp Class



Power supply	2 batteries 1,5V AA or 3,3 Vdc @1500mA Max (by C800AL)
WiFi connection	2.4 GHz (802.11 b/g/n)
Temperature regulation range	2 ÷ 40 °C, increment 0.1°C
Adjustable differential	STD (0,1 ÷ 0,3 K);
Thermal gradient	4 K/h

CODE

C800WIFIOTRQ	OpenTherm® WiFi remote control complete with rectangular and square bases
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ACCESSORY

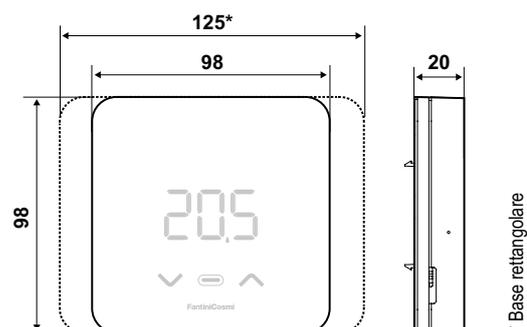
C800AL	230Vca / 3,3Vcc Power supply kit for C800 series
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HOMOLOGATION AND STANDARD

- Compliant with standards: EN 60730-1 and second parts;
- Directive 2014/53/EU (RED); 2014/30/EU (EMC); 2014/35/EU (LVD)
- ErP classification (Reg. EU 811/2013 – 813/2013): V; 3% or VI; 4% when combined with a boiler with external probe.



DIMENSIONS mm



INSTALLATION

- **Squared base:** could be installed on the wall or in a 2 modules or round flush mounting box, at about 1.5 meters above the floor.
- **Rectangulare base** could be installed on the wall or in a 3 modules flush mounting box, at about 1.5 meters above the floor.



Squared base

Available C800AL flush mounting power supply kit
230Vac/3.3Vcc for C800 series.



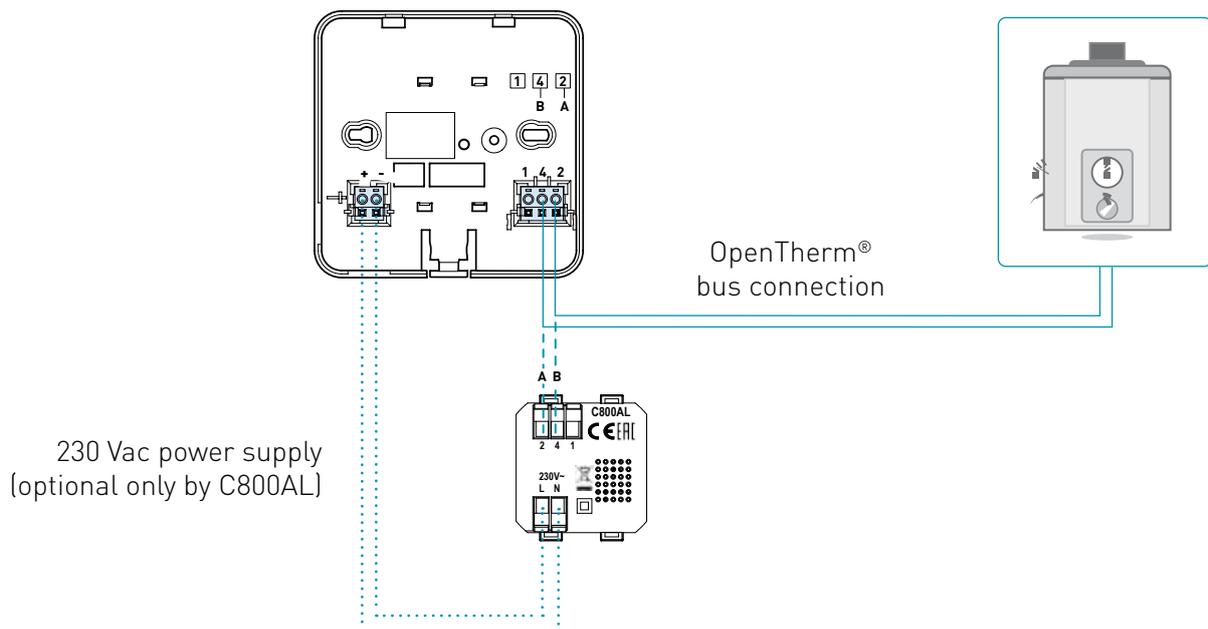
Rectangulare base

Available C800AL flush mounting power supply kit
230Vac/3.3Vcc for C800 series.

ELECTRIC FEATURES

Power supply	230 V - 50 Hz (Power supply unit C800AL) 2 AA 1.5 V alkaline batteries
Battery life	> 1 year
Communication protocol	OpenTherm

ELECTRICAL CONNECTION



GENERAL FEATURES

Temperature adjustment scale	2 ÷ 40 °C; increase 0.1 °C
Measurement scale/room T display	-9 to +50 °C; resolution 0.1 °C
Temperature display	Celsius/Fahrenheit
Nominal conductor cross-section for flexible cables	0.5 to 1 mm ²
Minimum adjusting differential	STD (0,1 ÷ 0,3) °C;
Thermal gradient of reference	4 K/h
Maximum room temperature	45°C
Storage temperature	-10 - +60°C
Software	Class A
Insulation class	Class II
Protection rating	IP32
Degree of pollution	2

FUNCTIONAL CHARACTERISTICS

- Operation in HEATING ONLY; HEATING + ACS/DHW; ACS/DHW ONLY mode (summer);
- Heating operation in WEEKLY - DAILY - MANUAL - TEMPORARY - OFF mode;
- Three room temperature levels: Comfort, Economy, ANTIFREEZE;
- Boiler regulation operation: Climatic (with or without room correction), Fixed Point (with or without room correction);
- Setting the acs/DHW temperature set-point;
- Setting the HEATING temperature set-point;
- Setting the dispersion coefficient set-point (kd);
- Weekly program HEATING;
- ACS weekly program;
- Boiler values display;
- Room antifreeze function can be set and excluded;
- Diagnostic messages;
- Reset boiler alarms;
- Back-up function for maintaining data even in the event of a power failure;
- Setting boiler parameters (tsp);

ADVANCED FUNCTIONS

C800WIFIOTRQ is the “universal” remote control with OpenTherm® communication protocol for a continuous modulation of the supplied power, suitable to manage heating and sanitary hot water systems for domestic use.

Using C800WIFIOTRQ is possible to select the type of adjustment you want to use.

- **Fixed point:** the delivery water fixed temperature is set according to the selected system type: Radiators, Fan Coils, Radiant Panels (see also page 21 - parameter P03);
- **Climatic regulation:** the delivery temperature is corrected according to the outside temperature to obtain a constant ambient temperature.

Thanks to the temperature monitoring and the continuous data processing by “Artificial Intelligence” algorithms, this system crosses all the information useful to optimize the heating system application, anticipating or delaying its activation based on the room habits and the advanced geolocation of users, with the aim to provide the best comfort conditions with the lowest possible consumption.

Such a new advanced thermoregulation approach, called “AGC-Adaptive Gain Control”, allows to reduce the primary energy requirement that can be verified and read by the user, through the infographics sections of the Intelliclimate+ App which display the savings data expressed in kW/year, reduction of CO2 and the equivalence of these data in “number of planted trees”.

-  DYNAMIC GEOLOCATION
-  ENVIRONMENTAL SAVINGS
-  ADAPTIVE GAIN CONTROL (AGC)
-  DOUBLE POWER SUPPLY
-  OPEN WINDOW DETECTION
-  REMOTE CONTROL BY APP
-  INTEGRATED WIFI

MAIN EDITABLE FUNCTIONS

Below is a table that summarizes the main functions that can be managed directly from the device and/or APP.

	 C800WIFIOTRQ	 APP
Mode selection (OFF - MAN - AUT - HOL)	•	•
Time profiles scheduling (AUT - HOL - JOL - ACS)	-	•
ACS Enabling	•	•
Ambient temperature display	•	•
Comfort and Economy temperature setpoint variation	Temporary	•
Antifreeze temperature setpoint (only in winter)	•	•
Summer/Winter operating modes (only ACS / Heating + ACS)	•	•
Key Lock setting	•	•
Ambient temperature correction (OFFSET)	-	•
Lower and upper temperature limits (Heating and ACS)	-	•
LED brightness level	-	•
AP (Access Point) activation	•	-
Firmware/Software Version	•	•
Device serial number	Label	•
Device reset	•	•
Device battery status	•	•

ADDITIONAL SETTINGS FROM THE APP

BOILER INFO display	•
WiFi router configuration	•
Definition of synchronization periods device - App	•
Last device communication - App	•
APP language selection (ITA-EN-FR-DE-ES-RU)	•
Device sharing with other users	•
SMART function: Self-learning (AGC)	•
SMART function: Geolocation	•
SMART function: CO ₂ energy saving display	•
SMART function: Window opening management	•
Summer/standard time setting	•
APP notifications	•

REMOTE PROGRAMMING THROUGH APP

With the **Intelliclimate+** APP, from a smartphone or tablet, is possible to manage the functions described in the previous table.

■ EXAMPLE OF INFORMATIONS FOR HEATING SYSTEM



The **Intelliclimate+** APP is available for free on:



■ EXAMPLE OF "ACS/DHW" MANAGEMENT INFORMATION



■ EXAMPLE OF BOILER PARAMETERS INFORMATION



INFO CALDAIA	
Temperatura Set Point Impianto	60
Temperatura Acqua Di Mandata	51
Temperatura Acqua Ritorno	0
Temperatura Acqua Calda Sanitaria	65/45/6
Temperatura Fumi	-
Temperatura Esterna	27,1
Pressione Impianto	0
Livello Di Modulazione Caldaia	45,9%
Temperatura Minima ACS	35
Temperatura Massima ACS	57
Protocollo Comunicazione Caldaia	Plus