



# C800WIFI

## LED PROGRAMMABLE THERMOSTAT WITH SMART FUNCTIONS

- Minimalist design with only 3 LED digits and 3 keys
- To control the heating and cooling systems
- Remote control through APP for Smartphone and Tablet
- SMART functions for an innovative approach to environmental comfort



Power supply	2 batteries 1,5V AA or 3,3 Vdc @1500mA Max (by C800AL)
Contacts rating	5(3)A 250 Vac
WiFi connection	2.4 GHz (802.11 b/g/n)
Temperature regulation range	2 ÷ 40 °C, increment 0.1°C
Adjustable differential	STD, 0,3 ÷ 5 K
Thermal gradient	4 K/h
Ambient RH display range	0 ÷ 99 %, increase 1%

### CODES

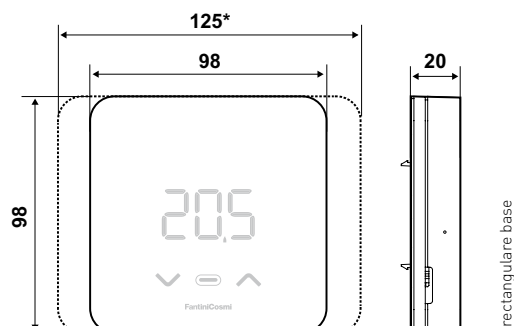
C800WIFIPRO	Smart Programmable Thermostat with power supply kit, square and rectangular bases
C800WIFIQ	Smart Programmable Thermostat with square base
C800WIFIR	Smart Programmable Thermostat with rectangular base
C800AL	Power supply kit 230Vac/3.3Vcc for C800 series

### HOMOLOGATION AND STANDARD

- Complies with EN 60730-1 standards and second parts;
- Responding to Directive 2014/53/UE (RED); 2014/30/UE (EMC); 2014/35/UE (LVD)
- ErP Class IV; 2% (Reg. EU 811/2013 - 813/2013);

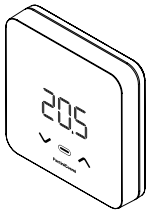


### DIMENSIONS mm



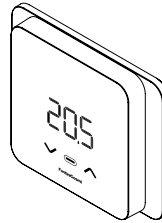
## INSTALLATION

- C800WIFIQ could be installed on the wall or in a 2 modules or round flush mounting box, at about 1.5 meters above the floor.



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

- C800WIFIR could be installed on the wall or in a 3 modules flush mounting box, at about 1.5 meters above the floor.

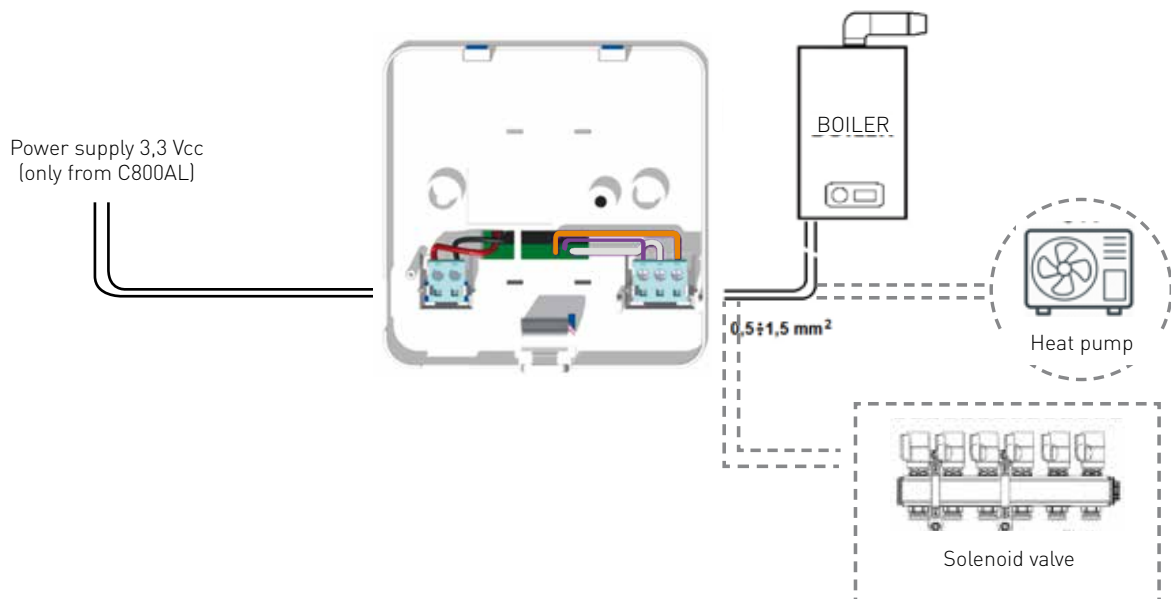


Available C800AL flush mounting power supply kit 230Vac/3.3Vcc for C800 series.

## ELECTRIC FEATURES

Power supply	2 batteries 1,5V AA or 3,3 Vdc @1500mA Max (by C800AL)
Maximum absorbed power	5 W
Contacts rating	5(3)A 250 Vac
Type of action	1 B.U. (connection micro-switch)
Output type	<ul style="list-style-type: none"> <li>■ 1 relay for heating and cooling systems (3 screw clamps (closed + open))</li> </ul>
Software	Class A
Electric insulation	Double insulation
Pulse voltage	4000V

### ■ ELECTRICAL CONNECTION



## GENERAL FEATURES

Temperature regulation scale	2 ÷ 40 °C, increment 0.1°C
Measurement scale/room T display	- 50 ÷ + 50 °C
Differential	0.3 ÷ 5 K
Thermal gradient	4 K/h
Maximum room temperature	45°C
Ambient RH display range	0 ÷ 99 %, increase 1%
WiFi connection	2.4 GHz (802.11 b/g/n)
Router communication port	1080
Maximum radio frequency power transmitted	<10mW
Storage temperature	-10°C ÷ +60°C
Protection degree	IP32
Pollution degree	2

## ADVANCED FUNCTIONS

C800WIFI is a smart programmable thermostat for an innovative approach in the environmental comfort management.



Thanks to the continuous temperature and humidity parameter monitoring (suitable to detect the perceived temperature) and the data processing by "Artificial Intelligence" algorithms, this system crosses all the information useful to optimize the heating and cooling 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 Intelliclima+ App which display the savings data expressed in kW/year, reduction of CO<sub>2</sub> and the equivalence of these data in "number of planted trees".

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

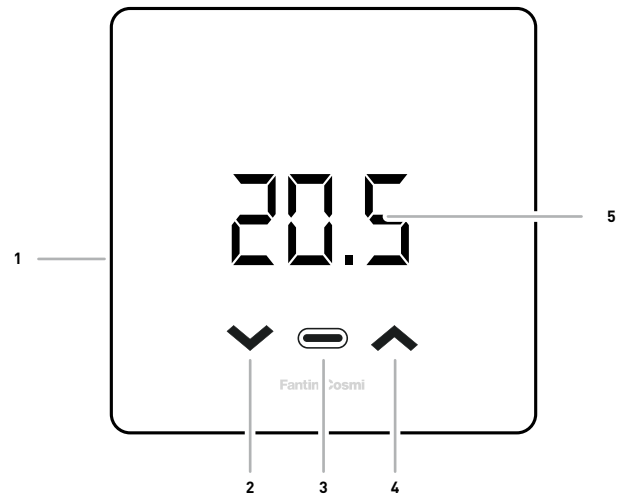
## MODIFIABLE FUNCTIONS / PARAMETERS

The temperature can be adjusted in several ways: directly from the programmable thermostat and through the APP Intelliclima+. Below is a table to view the functions that can be managed from the programmable thermostat and the APP.

	 C800WIFI	 APP
Off Mode (OFF)	•	•
Manual Mode (MAN)	•	•
Automatic Mode (AUTO)	•	•
Temperature display	•	•
Relative humidity display	•	•
Key Lock Setting	-	•
MAN Setpoint	•	•
AUTO Setpoint (day, night)	•	•
Antifreeze Setpoint (only in winter)	•	•
Operating mode (Summer/ Winter)	•	•
Room Temperature Correction	-	•
Adjustment differential change	-	•
Lower and upper temperature limits (Summer/Winter)	-	•
Celsius/Fahrenheit	-	•
Temperature Display	-	•
Programmable thermostat LED Brightness level	-	•
WIFI Activation	-	•
AP Activation (Access Point)	•	-
Time of communication between C800WIFI and Server (8 levels)	-	•
Date and Time Synchronisation	-	•
AUTO Profile programming	-	•
Consumption Display (system on hours)	-	•
Summer/winter time Setting	-	•
APP Language selection	-	•
Thermostat share with other users	-	•
Notifications on APP	-	•
Thermostat Software Version	•	•
Thermostat serial number	-	•
Thermostat Default parameter setting	•	•
Last Thermostat - Server communication	•	-
Thermostat batteries state	•	•
SMART Function: Selflearning (AGC)	-	•
SMART Function: Geolocation	-	•
SMART Function: Adjustment from perceived temperature	-	•
SMART Function: CO2 Energy saving display	-	•
SMART Function: Window opening management	-	•
SMART SPEAKER Interaction: Google Home, Alexa	-	•

## OPERATION

- The C800WIFI is a LED programmable thermostat with WIFI connection and integrated relay which, equipped with a temperature and relative humidity sensor, allows to control the apartment heating and cooling.
- Equipped with a “virtual” graphical interface which can be used through the APP, it optimises the use of the room heating and cooling system with Artificial Intelligence algorithms, with the purpose of providing the best comfortable conditions with the least possible consumption.
- C800WIFI is provided with 6 keys and their minimal functions change according to the context. All the advanced functions and the programming of the operating modes can only be set from the APP.
- The programmable thermostat allows different modes of use, called programs:
  - MAN Manual program
  - AUTO Weekly program
  - OFF Switched off system or antifreeze program



1	Reset Switch
2	Down Key - Decreases
3	Mode key + heating/cooling LED
4	Up Key - Increases
5	Room temperature and basic functions display

### [ MAN ]

#### ■ MANUAL PROGRAM

The programmable thermostat adjust the room temperature using the temperature set in 24 hours.



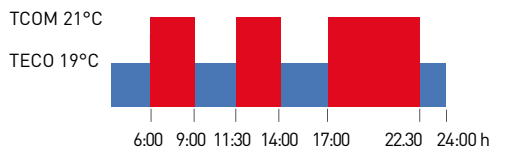
TMAN adjustable temperature from 2°C to 40°

### [AUTO]

#### ■ AUTO - WEEKLY PROGRAM

Il C800WIFI programmable thermostat manages the set temperatures according to the time programs on the weekly profile. It is provided with preset winter programs and preset summer programs, but modifiable by the user only by APP.

In the AUTO mode it is possible to set 2 temperature levels TCOM e TECO (comfort temperature and economy temperature).



TCOM adjustable temp. from 2 to 40 °C

TECO adjustable temp. from 2 to 40 °C

Note: TCOM > TECO (winter)

TECO > TCOM (summer)

#### ■ OFF - SWITCHED OFF SYSTEM OR ANTIFREEZE PROGRAM

The selected system is switched off. During WINTER mode keeps the temperature antifreeze.



TA antifreeze adjustable temp from 2 to 8 °C

## 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:

