C900 SERIES

SMART WI-FI PROGRAMMABLE THERMOSTAT, BATTERY-POWERED

- Suitable for controlling heating and/or cooling systems
- Remote control via smartphone app
- SMART features for an innovative approach to home comfort
- Also ideal for controlling hydronic systems by regulating based on perceived temperature

Power supply	2 AA 1.5V alkaline batteries 230 V - 50 Hz (via C800AL power adapter)
Contact rating	5(3)A 250 Vca
WiFi connection	2,4 GHz (802.11 b/g/n)
Temperature adjustment range	2 ÷ 40 °C, increase 0,1°C
Differential adjustment	STD, 0,3 ÷ 5 K
Reference thermal gradient	4 K/h
Ambient relative humidity display range	0 ÷ 99 %, increase 1 %

MODELS

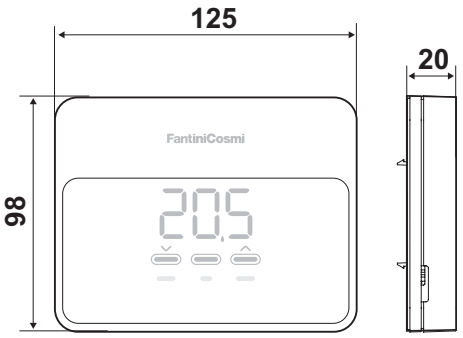
C900Q	Smart Wi-Fi programmable thermostat, battery-powered, white
C900QN	Smart Wi-Fi programmable thermostat, battery-powered, black
C900QS	Smart Wi-Fi programmable thermostat, battery-powered, sand
C900R	Smart Wi-Fi programmable thermostat, battery-powered, white
C900RN	Smart Wi-Fi programmable thermostat, battery-powered, black
C900RS	Smart Wi-Fi programmable thermostat, battery-powered, sand
C800AL	Power supply kit 230Vca/3.3Vcc for C900 and C800 series (flush mounting)

- C900Q_

- C900R_

DIMENSIONS (mm)

- C900Q_



- C900R_

INSTALLATION

- **C900Q_**: Wall-mounted or flush-mounted in 500 or 502-type wall boxes, at approximately 1.5 m from the floor, in a suitable position to correctly detect the room temperature
- **C900R_**: Wall-mounted or flush-mounted in 503-type wall boxes, at approximately 1.5 m from the floor, in a suitable position to correctly detect the room temperature

The C800AL flush-mounted power supply kit (230 V AC / 3.3 V DC) is available in the catalogue and is compatible with both C800 and C900 Series devices.

STANDARDS AND CERTIFICATIONS

- Compliant with EN 60730-1 and related parts
- Directive 2014/53/UE (RED); 2014/30/UE (EMC); 2014/35/UE (LVD)
- ErP Classification (EU Reg. 811/2013 - 813/2013): Class IV, efficiency 2%

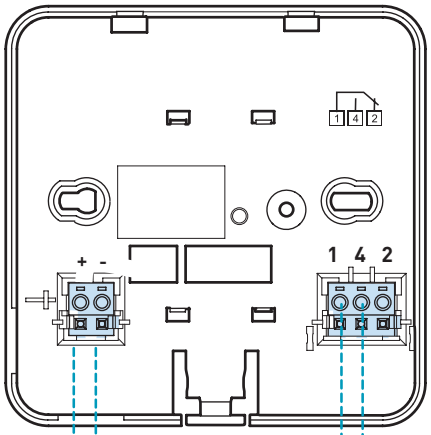
CE EAC

ELECTRICAL SPECIFICATIONS

Power supply	2 AA 1.5V alkaline batteries 230 V - 50 Hz (via C800AL power adapter)
Maximum power consumption	5 W
Contact rating	5(3)A 250 Vca
Action type	1 B.U. (Micro disconnession)
Output type	1 relay for heating/cooling (3 screw terminals, normally closed + normally open)
Software class	A
Electrical insulation	Double insulation
Impulse voltage	4000V

■ ELECTRICAL CONNECTIONS

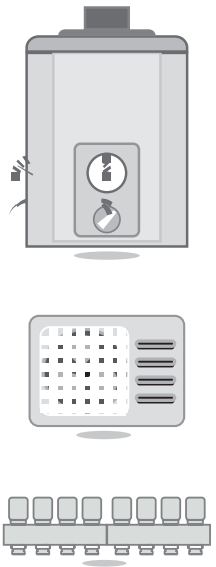
Connect terminals 1 and 4 to the system.



1: Common
4: Normally Open (NO)
2: Normally Closed (NC)

Power supply 3.3 VDC
(only from C800AL)

Connection Example



GENERAL SPECIFICATIONS

Temperature adjustment range	2 ÷ 40 °C, increase 0,1°C
Ambient temperature measurement/display range	- 50 ÷ + 50 °C
Adjustable temperature differential	STD, 0,3 ÷ 5 K
Reference thermal gradient	4 K/h
Maximum ambient temperature	45°C
Ambient relative humidity display range	0 ÷ 99 %, increase 1 %
WiFi connection	2,4 GHz (802.11 b/g/n)
Maximum transmitted radiofrequency power	<10mW
Storage temperature range	-10°C ÷ +60°C
Protection degree	IP32
Pollution degree	2

ADVANCED FEATURES

The **C900** is a **smart programmable thermostat** designed for an innovative approach to indoor comfort management.

C900 is ideal for controlling both traditional boiler-based systems and **hydronic systems**, by enabling regulation based on the **perceived temperature.**

Thanks to continuous monitoring of **temperature and humidity**– which are used to calculate perceived temperature–and the processing of this data by **Artificial Intelligence algorithms,** the system cross-analyzes all relevant inputs to **optimize the operation** of heating and cooling systems.

It can **anticipate or delay activation** based on user habits and **advanced geolocation**, in order to deliver optimal comfort conditions with the **lowest possible energy consumption**.

This new approach to advanced climate control, called **AGC – Adaptive Gain Control,** leads to a **reduction in primary energy demand**, which can be tracked and reviewed directly by the user.

The **Intelliclima+ App** displays energy savings data (expressed in **kWh/year**), **CO^2 emissions reduction**, and even the equivalent number of **trees planted**.

- PERCEIVED TEMPERATURE
- GEOLOCATION
- ENVIRONMENTAL SAVINGS
- SELF-LEARNING
- DUAL POWER SUPPLY (230V OPTIONAL)
- OPEN WINDOW DETECTION
- REMOTE CONTROL VIA APP
- INTEGRATED WIFI

RED DA COMPLIANT

ADJUSTABLE FUNCTIONS / PARAMETERS

Temperature regulation can be performed directly from the programmable thermostat or via the Intelliclima+ App.

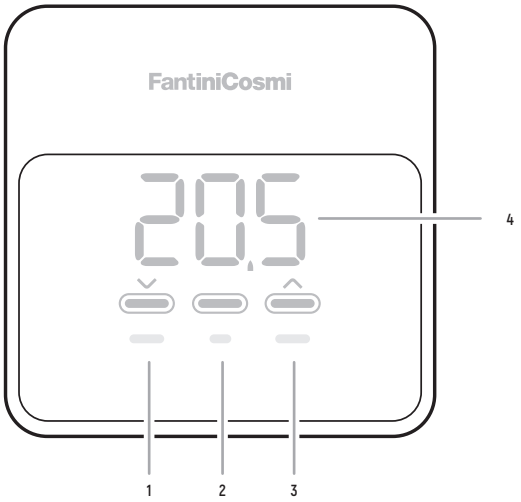
Below is a table showing which functions are manageable from the device and from the app:

	C900	*Intelliclima+* APP
Mode selection (OFF – MAN – AUTO)	•	•
Ambient temperature display	•	•
Relative humidity (%) display	•	•
Desired temperature setting in MAN mode	•	•
Desired temperature setting in AUTO mode (Economy and Comfort)	(•)*	•
Frost protection temperature setting (winter only)	•	•
Season setting (Summer/Winter)	•	•
Keypad lock setting with password	•	•
Display brightness level	•	•
Display activation duration	•	•
WiFi connection	-	•
Access Point (AP) activation	•	-
Day/hour/minute setting	•	-
Date and time synchronization	-	•
Instant communication between device and app	•	-
Communication frequency adjustment between device and app	-	•
Battery status display	•	•
Reset settings	•	-
ADDITIONAL SETTINGS VIA APP		
AUTO profile programming	-	•
Ambient temperature correction	-	•
Regulation differential adjustment	-	•
Minimum and maximum temperature limits (Summer/Winter)	-	•
Consumption display (system operating hours)	-	•
Daylight saving time / Standard Time setting	-	•
App language selection	-	•
Device sharing with other users	-	•
App notifications	-	•
SMART Function: Self-learning (AGC)	-	•
SMART Function: Geolocation	-	•
SMART Function: Regulation based on perceived temperature	-	•
SMART Function: Energy savings and CO_2 display	-	•
SMART Function: Open window detection	-	•

* Temporary modification until the next scheduled change within the profile time slot

OPERATION

- The C900 is a weekly programmable thermostat with integrated Wi-Fi and built-in relay, equipped with temperature and relative humidity sensors, allowing control of heating and cooling systems in apartments.
- Simplified usability: three buttons to easily select various functions and ensure an optimal user experience.
- Integrated smart functions: with built-in Wi-Fi and advanced smart features, it saves energy and optimizes consumption through self-learning and dynamic geolocation. All advanced functions and operating mode programming can only be set via the app.
- The C900 thermostat, powered by Artificial Intelligence algorithms, optimizes the use of heating and cooling systems to provide the best comfort conditions with minimal energy consumption.
- 3 operating modes (called programs):
  - MAN - Manual program
  - AUTO - Weekly program
  - OFF - System off or frost protection program



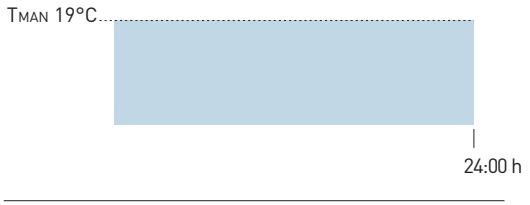
1	Down Button – Decrease
2	Mode Button + heating/cooling LED
3	Up Button – Increase
4	Temperature display and user menu

[MAN]

- MANUAL PROGRAM

The device maintains a fixed temperature for an unlimited duration, until a different program is selected.

- TMAN (Manual Temperature) can be set between 8°C and 40°C



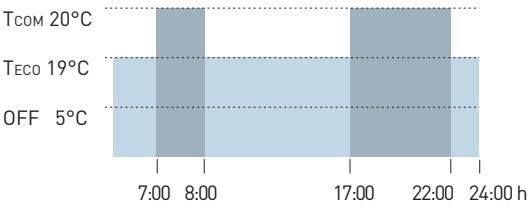
[AUT]

- WEEKLY "AUTOMATIC" PROGRAM

The C900 follows time programs (predefined and user-modifiable via the Intelliclima+ app) based on a weekly schedule. It is possible to assign one of the three programmable temperatures (off/frost protection, comfort temperature, and economy temperature) to every 15-minute interval for each day of the week.

TCOM can be set between 8 and 40 °C
TECO can be set between 8 and 40 °C
Notes: TCOM > TECO (winter)
TECO > TCOM (summer)

Esempio programma default INVERNO:



[OFF]

- OFF - SYSTEM OFF OR FROST PROTECTION PROGRAM

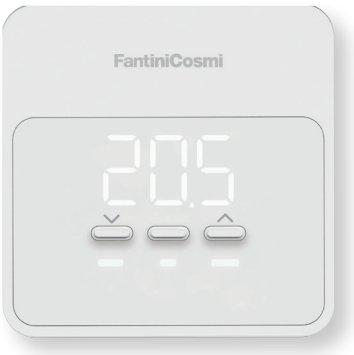
The system is turned off. During the Winter season, it maintains a frost protection temperature to prevent freezing.

TA - frost protection temperature can be set between 2°C and 7°C

REMOTE CONTROL VIA APP

With the Intelliclima+ app, available for free on smartphones, you can manage all the functions listed in the previous table.

- EXAMPLE OF INFORMATION FROM A HEATING SYSTEM



The *Intelliclima+* App Is Available for Free on:

Available on the App Store
ANDROID APP ON Google play

SPECIFICATION ITEMS

Weekly programmable thermostat with integrated WiFi to be used in combination with the dedicated Intelliclima+ APP for smartphones to regulate room temperature in heating and cooling systems.

Thermostat features: White, Black, Sand colors; Battery-operated (optional 3.3 VDC via C800AL power adapter); Wireless connection: Wi-Fi 2.4 GHz; Operation: manual, automatic (configurable with 3 temperature levels). Output: 1 relay for boiler/chiller control. Wall-mounted or flush-mounted in 503-type wall boxes (for C900_R models). Temperature adjustment range: 2 ÷ 40 °C; Regulation differential: 0.3 ÷ 5°C; Thermal gradient reference: 4K/h; Frost protection temperature adjustment range: 2 °C ÷ 7 °C; Relative humidity display; Protection rating: IP32. Compliant with standards EN 60730-1 and related parts. ErP Classification: ErP Class IV; 2% (EU Reg. 811/2013 - 813/2013), Compliant with Directive 2014/53/EU (RED), Directive 2014/30/EU (EMC), Directive 2014/35/EU (LVD).

APP features: temperature adjustment and scheduling of time profiles; Selection of different usage modes; Simultaneous management of multiple homes and multiple thermostats within a single home; Consumption optimization through geolocation functions, system self-learning (AGC), open window detection, perceived temperature. Display of energy consumption and CO_2 savings; Thermostat sharing with multiple users.