



CH141E



INSTALLATION AND USER MANUAL

FLUSH MOUNTING WEEKLY PROGRAMMABLE THERMOSTAT, BATTERY OPERATED

Dear customer, thank you for purchasing the Fantini Cosmi flush mounting weekly programmable thermostat, model CH141E, for the temperature management and home comfort.

This manual contains all the information required for a correct installation and configuration.

You can also download this manual in digital format and in several languages by framing the QR code below and entering the product code.



Warnings



Carefully read the installation instructions, safety warnings, operating modes and maintenance instructions in this booklet, which should be kept for further reference.

use it.

- After removing the packaging, check the integrity of the appliance; if in doubt, do not
- Installation of the appliance should only be carried out by qualified technicians in compliance with current standards.
- · The use of any electrical appliance involves observing certain basic rules. In particular:
 - D0 N0T touch the device with wet hands or wet feet or bare feet.
 - · DO NOT expose the device to the weather (rain, sun, etc.).
 - · Before carrying out any maintenance or cleaning work, switch off the power supply.
 - DO NOT power the appliance with the cover open.



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Contents of package

- 1 programmable thermostat
- 1 frames
- 1 white covers, type A
- 2 screws
- 1 user manual





1 - TECHNICAL FEATURES

Temperature adjustment scale	2 ÷ 40 °C, increase 0.1°C		
Measurement scale/room T display	-35 ÷ +60 °C		
Power supply	2 AAA 1.5V alkaline batteries		
Battery duration	approximately 1 year *		
Connection to boiler	3 screw clamps (closed + open)		
Contact range	5[3]A / 250 Vac		
Type of action	1BU microdisconnection		
Software	class A		
Minimum adjustment differential	0.1°C		
Thermal gradient of reference	4K/h		
Maximum room temperature	T45		
Electric insulation	D double insulation		
Degree of protection	IP20		
Pollution degree	2		
Pulse voltage	4000V		
Assembly	recessed in 3-module box type 503, with 2 screws		
Dimensions	68 x 52,5 x 58 mm		
Compliant with standards	EN 60730-1 and second parts		
ErP classification	ErP Class IV; 2% (Reg. EU 811/2013 - 813/2013)		

Product not manufactured in Italy.

* Duration refers to standard use with default settings.



2 - INSTALLATION

The CH141E programmable thermostat must be installed in a 3-module recessed box, in the middle of the apartment, preferably 1.5 m off the ground. The required components, all included in the package according to the following table.

MODELS	COVER TYPE	FRAME TYPE	TABS TO DETACH	COVER COLOR	ADAPTERS KIT **
Diference Martin 00	A	3	YES position "A+C" —	white	
RICINO MATIX GU				silver	Code 1576884
	A 4**		NO -	white	Code 1576888
Bticino Living Now		4**		black	Code 1576889
				sand	Code 1576890
Vimar Eikon Evo	А	3	YES position "A+D"	white	
Vimar Arké	А	3	NO	white	
	C**		YES position "A+C+D" _	white	Code 1576885
Vimar Linea		3		black	Code 1576886
				sand	Code 1576887





cut 8 or 12 tabs according to type of cover plate



Installation and maintenance operations must be carried out with the system's electrical power switched off and by qualified personnel, in compliance with the regulations in force.

PERFORM THE FOLLOWING OPERATIONS:

- 1. act on the master switch on the electric panel to cut power to the electrical system;
- 2. when required, detach the tabs according to the type of plate;
- 3. fasten the programmable thermostat to the suitable frame;
- 4. mount the cover on the body of the programmable thermostat.
- 5. connect the two wires of the boiler to terminals 1-2 of CH141E;
- 6. screw the frame onto the box using the provided screws;
- 7. mount the plate;
- 8. switch the electric system back on.



3 - ELECTRICAL CONNECTIONS



Installation and maintenance operations must be carried out with the system's electrical power switched off and by qualified personnel, in compliance with the regulations in force.



PLEASE NOTE: when CH141E is disconnected, the boiler contact remains in its current position.

4 - INSERTION AND REPLACEMENT OF BATTERIES

Insert two AAA 1.5 V alkaline long lasting batteries, of a good brand, paying attention to the marked polarities.

N.B. the life of the batteries is greatly affected by the type of use and the settings made by the user, especially the brightness of the display.

When the batteries are low, the symbol of the discharged battery flashes on the display: Imp . CH141E keeps working regularly, but the display does not light up. If the batteries are completely discharged, the programmable thermostat quits working (switching off the system) and the display reads "PRESS HERE TO REPLACE BATTERIES", until the batteries are replaced.

To replace the batteries, remove CH141E from its housing, moderately pressing inwards and at the same time on both sides of the cover. When you disconnect the programmable thermostat, the text **"Disconnected"** is displayed for one minute as well as the symbol of the battery flashing (the battery symbol also flashes, but differently, when the batteries are charged, signalling that the body of the programmable thermostat is disconnected from the base). The text **"Connected"** disappears when you press a key.

All parameters remain stored while the batteries are being replaced.



5 - QUICK GUIDE FOR PROGRAMMING

5.1 - DESCRIPTION OF KEYS

The programmable thermostat is equipped with 6 keys, the function of which varies depending on the situation. It is described by the symbol which appears on the display next to the key.



N.B.: pressing a key once has no effect aside from switching on the light on the display to have a better view.

5.2 - SETTING TIME AND DATE

After the device switches on, press the key **PROG** briefly: the text "Setup" is displayed; now press ▶ to enter the "Hours" page. Set the hour by pressing ▲ and ▼. Then press ▶ to go to the "Minutes" setting. Again press ▶ to select, in order, the Year, Month and Day

Pressing \blacktriangleright again allows you to choose whether to disable automatic change of summer/winter time: initially this function is active can but can be deactivated by pressing "N0" using the keys \blacktriangle and \bigtriangledown .

Pressing \blacktriangleleft allows you to go back to the previous page. To exit the Setup menu, press **ENTER**.





5.3 - OPERATING PROGRAMS

The CH141E programmable thermostat has different operating modes, called programs;

"ALITO" WEEKLY PROGRAM.

one of the four programmable temperatures can be associated to each half hour for each day of the week. This is the program displayed when the programmable thermostat is switched on and is generally the one most used.

"HOLIDAY" DAILY PROGRAM:

Like in the AUTO program, you may select one of the 4 programmable temperatures for each half hour, but the identical sequence will be repeated every day.

"IOLLY" TEMPORARY PROGRAM: you may choose to hold a certain temperature for a certain number of hours, after which it will go back to the previously active program.

"MAN" MANUAL PROGRAM:

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the programmable thermostat maintains a fixed temperature, specified each time, for an unlimited amount of time until another program is selected.









 SYSTEM OFF OR WITH ANTIFREEZE PROGRAM "OFF/ ANTIFREEZE":

the system remains off or else maintains a very low temperature (from 2 to 7°C) to prevent the fluid in the heating system from freezing.

OFF	
<u></u>	
	0

5.4 - SETTABLE TEMPERATURES

Four different temperatures can be set and one can be selected for each half hour of the day in the AUTO and HOLIDAY programs. Three of these temperatures [T1, T2 and T3] can have values from 2° to 40°C, while the fourth, T antifreeze [TA], can range from 2° to 7°C, or be set at "OFF" (system off). The manual program has its specific temperature [TMan], like the JOLLY program [T]), which are set in the respective screens and can range from 2° to 40°C.

The ANTIFREEZE/OFF program, on the other hand, follows the temperature TA which, as we have said, can range from 2° to 7°C; or else, it can be set at "OFF", switching the plant completely off.

5.5 - SETTING OPERATING PROGRAMS

\rightarrow PROGRAM SELECTION

press **SEL** to select, in cyclical sequence, the different operating programs: AUTO -> MAN -> OFF -> HOLIDAY -> AUTO.

PLEASE NOTE: the JOLLY temporary program is not included in the program sequence, but can be selected directly by pressing the JOLLY key.

ightarrow Setting the temperatures

press **TEMP** in the AUTO, HOLIDAY and OFF programs to change the value of the 4 programmable temperatures: when you press **TEMP** several times, the values T1, T2, T3, Ta appear in sequence; stop at the T you want to change and use the arrow keys \triangle and \checkmark to increase or decrease the temperature by a tenth of degree at a time. Press \blacktriangleleft to go back to the initial status.



Remember that T1 will always be less than or equal to T2, and T2 to T3.



EN

In the JOLLY program, pressing **TEMP** alternates the view of the set temperature Tj and of the hours remaining until the end of the program: these two values can be changed using \blacktriangle and \checkmark . The MAN program allows you to modify the fixed temperature TMan using the keys \blacktriangle and \checkmark .

ightarrow Editing current date and time

briefly press the key **PROG** to enter the "Setup" menu where you may change the time, date, winter/ summer mode and the automatic summer/winter time change function.

ightarrow CUSTOMISATION OF WEEKLY "AUTO" PROGRAMMING AND DAILY "HOLIDAY" PROGRAMMING

keep the key **PROG** pressed until the text "Config" is displayed.

This menu allows you to program the weekly profiles (AUTO program) and daily profiles (HOLIDAY program) and to set the advanced functions (see the following paragraphs for their description).

PLEASE NOTE: if the text "Setup" appears instead of "Config", you did not press the key long enough and you must press **ENTER** to go back to the normal operating condition and try again.

When you enter the "Config" menu, a page appears which allows you to choose the desired temperature (T1/T2/T3/Ta) for each half hour of the indicated day (from 1 to 7 indicating the days from Monday to Sunday).



PLEASE NOTE: T1/T2/T3/Ta are displayed on the right of the screen with the symbols

EI-E2-E3-E8

Pressing \blacktriangleright and \blacktriangleleft allows you to move one half hour at a time to the right or to the left. Pressing \blacktriangle and \blacktriangledown allows you to go from one programmed temperature to another.

Pressing PROG (briefly) switches you to the next day (DAY 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> H).

Press COPY to copy the temperature profile of the current day on the following day.

After H (profile of the Holiday daily program) you go to the Correction parameter page.

Pressing **PROG** (long) or **4** on day 1 sends you immediately to the Correction page.

Then pressing **ENTER** from the Correction page allows you to the exit the "Config" menu.



ightarrow "Jolly" program setting

In all programs, except MAN, pressing the key **JOLLY** selects the temporary program: this program allows you to define the desired temperature and its duration in hours (up to a maximum of 240, so to say 10 days).

For example, you may want to keep a lower temperature during the entire weekend when no one is home.

When you enter this program, you may modify the duration, which initially is one hour, and increase the number of hours by pressing \blacktriangle , or decrease them by pressing \blacktriangledown .

Pressing **TEMP** allows you to view and modify temperature Tj, again using the keys \blacktriangle and $\mathbf{\nabla}$. Pressing **TEMP** again sends you back to view the duration of the JOLLY program.

When this time elapses, you go back to the initial program.

→ "OFF/ANTIFREEZE" PROGRAM SETTING

Pressing $\ensuremath{\mathsf{OFF}}$ from any program switches the programmable thermostat to the off/antifreeze status.

The antifreeze temperature (Ta) can be programmed by pressing **TEMP**, from OFF (boiler always off) to an interval between 2.0 and 7.0°C, by tenth of a degree, using the arrow keys \blacktriangle and \checkmark . Go back to the OFF status by pressing \blacktriangleleft .

Pressing OFF again sends you back to the previous operating status.

→ ALTERNATIVE DISPLAYS

Other information can be viewed in the AUTO and HOLIDAY programs in place of the temperature profile, by pressing the key **DISP** several times.

The first time it is pressed the programmed temperature for the current half hour appears, the second time it displays the date and the third time it goes back to the initial temperature profile.



6 - FUNCTIONS IN DETAIL

6.1 - AVAILABLE PROGRAMS

CH141E has several operating modes (programs):

- "AUTO" weekly program
- "HOLIDAY" daily program
- "JOLLY" temporary program
- "MAN" manual program
- system off or with antifreeze "OFF"program

ightarrow "AUTO" WEEKLY PROGRAM

4 temperature levels can be used in the AUTO operating mode (Ta, T1, T2, T3), according to a programming with 30 minute steps, 24 hours a day, 7 days a week. The days are numbered from 1 to 7 and correspond to the seven days of the week, starting from Monday.

To simplify programming, you may set the first day and copy it on the following days. The default for days 1 – 5 (Monday to Friday) is:

00:00 - 06:30 T1 06:30 - 09:00 T2 09:00 - 11:30 T1 11:30 - 14:00 T2 14:00 - 17:00 T1 17:00 - 22:30 T3 22:30 - 24:00 T1



while the default for days 6 and 7 (Saturday and Sunday) is:

00:00 - 08:00 T1 08:00 - 11:30 T2 11:30 - 23:00 T3 23:00 - 24:00 T1





The value of the 4 temperatures can be programmed using the TEMP function. The temperature profile (hourly variation) can be programmed using the PROG function.



For summer mode (air conditioning), the default program is that shown in the figure.

ightarrow "Holiday" daily program

4 temperature levels can be used in HOLIDAY operating mode, according to a programming with 30 minute steps, 24 hours a day.

This achieves a daily programming, regardless of the days of the week. The default temperature profile is:

00:00 - 08:00 T1 08:00 - 11:30 T2 11:30 - 23:00 T3 23:00 - 24:00 T1



The value of the temperatures can be programmed using the TEMP function. The temperature profile (hourly variation) can be programmed using the PROG function.

ightarrow Jolly

The JOLLY mode allows you to set a programmable temperature [Tj] for a programmable number of hours [from 1 to 240]. It is used when you wish to introduce a temporary variation to programming without changing the parameters, for example to maintain a high temperature for longer when spending an evening with friends or to keep it low when no one is home the weekend.



If you enter JOLLY mode using the specific function key, when time is up it goes back automatically to programming in progress.



ightarrow Manual

MAN mode allows you to set a fixed temperature manually (Tman), ranging from +2.0 to +40.0 degrees, without expiring and without needing to modify the weekly or daily program.

For example it can be used to keep the house at a different temperature than that of the daily program when no one is home, or to switch on the system remotely, bringing it to a constant temperature.



ightarrow OFF

OFF mode is used when you want to switch the system off.

It uses the temperature TA (antifreeze) as a reference, to guarantee protection of the system at low temperatures.

TA is normally set at +5 degrees, but it can also be set at OFF, to switch the boiler completely off. Weekly or daily programs remain unchanged.

6.2 - SETTABLE TEMPERATURES

The system can use 4 different temperature levels, three for normal use and one, called "antifreeze", to be used when you wish to keep the boiler off, but without risking having the fluid in the system freeze.

Programming of the three T is conditioned by reciprocal values, meaning that T1 cannot be higher than T2, T2 cannot be higher than T3 or lower than T1, and T3 cannot be lower than T2.

You must therefore pay attention to their programming, set by using the TEMP key.

T1 ranges between +2.0 and +T2 degrees, with variations every tenth of degree [default 17.0]

T2 ranges between +T1 and +T3 degrees, with variations every tenth of degree [default 19.0]

T3 ranges between +T2 and +40.0 degrees, with variations every tenth of degree [default 20.0]

TA (antifreeze) ranges between +2.0 and +7.0 degrees, with variations every tenth of degree, or a can be OFF, when the boiler remains off [default 5.0].



6.3 - ADVANCED KEYS AND FUNCTIONS

USING THE SEL KEY

The **SEL** key allows you to select the operating mode of the programmable thermostat, according to the following programs:

- \rightarrow Holiday
- \rightarrow AUTO
- \rightarrow MANUAL
- → OFF

To change the selected program, press **SEL** in sequence (cyclical). The first 3 statuses are signalled with a small text on the left of the display, while the OFF status appears in the graphical area at the top.

USING THE TEMP KEY

→ In AUTO, HOLIDAY and OFF

Pressing TEMP allows you to enter programming of the 4 temperatures used in these statuses

Change the temperatures using the arrow keys \blacktriangle and ∇ , as long as T1 is no higher than T2, T2 is not lower than T1 and higher than T3, T3 is not lower than T2.

Press **TEMP** to go to the next temperature (cyclical) T1>T2>T3>TA>T1. Press I to go back to the home page.

\rightarrow In JOLLY

Pressing **TEMP** alternates from programming of Tj to that of the duration of Jolly (from zero to 240 hours, equal to 10 days).

Use ▲ and ▼ to change Tj (between +2 and + 40°) and the duration (1 hour steps).



USING THE **PROG** KEY

- → PROG (brief) -> SETUP
 - → Winter/PAGI/Set using ▲ or ▼ you switch from Winter to Summer and vice versa press ► to change page and press ENTER to exit PROG.
 - → Hours HH (flashing) : MM/PAG2/SEt pressing ▲ cyclically increases the hours while ▼ decreases them. press ▶ to change page and press ENTER to exit PROG.
 - → Min. HH:MM [flashing] /PAG3/Set pressing ▲ cyclically increases the minutes while ▼ decreases them. press ► to change page and press ENTER to exit PROG.
 - → Year: YYY/PAG4/Set pressing ▲ increases the years while ▼ decreases them press ▶ to change page and press ENTER to exit PROG.
 - → Month: MM/PAG5/Set pressing ▲ cyclically increases the months while ▼ decreases them press ▶ to change page and press ENTER to exit PROG.
 - → Date: DD/PAG6/Set pressing ▲ cyclically increases the days while ▼ decreases them. press ▶ to change page and press ENTER to exit PROG. PLEASE NOTE: when the date is set, the programmable thermostat automatically determines the day of the week.
 - → Summer Time YES/PAG7/Set Automatically selects summer time, applicable in Europe and some of the countries. This set up automatically updates the time when it changes (March and October). Use ▲ or ▼ to say YES or NO. Press ▶ to go back to page.1 (Winter/Summer) and press ENTER to exit PROG.



→ PROG [long] -> CONFIG.

The display of day 1 appears, with the graphical display of the temperatures each half hour, indication of the half hour and the associated temperature ($E \ I - E \ 2 - E \ 3 - E \ R$).

Day 1 corresponds to Monday, and so on. Day H is the Holiday, which does not Change during the week. Pressing ▶ moves forward a half hour.

Pressing ▲ or ▼ moves up or down from TA to T1 to T2 to T3.

Press **PROG** (briefly) to change the day (1, 2, 3, 4, 5, 6, 7, H).

After H you go to page1 (Correction).

Pressing **PROG** (long) sends you right away to page 1.

Press COPY to copy the temperature profile of the current day on the following day.

From page 2 on, pressing ENTER allows you to exit programming.

Press < to go back to the previous half hour (even the day before).

Press < at the start of day 1 to go right to page 2.

→ Correction/PAG1/XX.X°

This allows you to modify the read temperature, which due to the recessed wall installation or perhaps a non-ideal height might not indicate the true temperature perceived. It is recommended to calibrate it by comparing it with a thermometer placed at the desired height/area.

Use \blacktriangle and \blacktriangledown to modify the temperature value on the display.

Press to go to page 2 and ENTER to exit.

→ Celsius/PAG2/XX.X°

This allows you to choose the temperature display scale between Celsius and Fahrenheit degrees.

Press 🔺 or 🔻 to switch from Celsius to Fahrenheit.

Press to go to page 3 and **ENTER** to exit.

→ Light OFF-ON Xs/PAG3

To adjust back lighting of the display (sky blue light). You can choose not to have it (OFF) or to have it with a duration programmed from 1 to 9 seconds.

When back lighting is set at "always OFF", simply press the keys once to activate the various functions. Press \blacktriangle or \checkmark to switch from OFF to ON, then choosing the duration (1-9 sec).

Press to go to page 4 and ENTER to exit.

→ Int. Light X/PAG4

Allows you to modify the luminous intensity of the display, at 9 levels. Press \blacktriangle or \checkmark to modify the brightness level (1-9). Press \triangleright to go to page 5 and **ENTER** to exit.



→ Italiano/PAG5

Allows you to change the language used during programming. Press \blacktriangle or \checkmark to cyclically switch from one language to another. Press \triangleright to go to page 6 and **ENTER** to exit.

→ Block? NO[YES]/PAG6

Allows you to block the keyboard, with the 4-digit password. It only works once and then must be re-enabled.

Pressing \blacktriangle or \checkmark switches from N0 to YES, and press **ENTER** to request the password, entered with the arrow keys \blacktriangle or \checkmark , selecting the digits with \blacktriangleright and \triangleleft Press **ENTER** to store it, going back to the normal operating display, where only

Press ENTER to store it, going back to the normal operating display, where only the function key ENTER is visible. When you press it you are requested to enter the password, using the arrow keys \triangle and \bigtriangledown , followed by ENTER. The display goes back to normal programming, enabling all the functions.

Press to go to page 7 and ENTER to exit.

→ Reset? NO (YES)/PAG7

Press ▲ or ▼to switch from N0 to YES. Pressing **ENTER**, while "YES" is displayed restores all the parameters (except date and time) to the default values. Press ▶ to go to page 8 and **ENTER** to exit.

→ CH141E vX.Y/PAG8 Displays the software version of the CH141E programmable thermostat.

Press ENTER to exit and to go back to the normal operation page.

Pressing lallows you to go back to programming the hourly profile (page 1).

USING THE DISP KEY

The **DISP** key allows you to view windows with different information regardless of the operating status, only when in AUTO or HOLIDAY modes.

The following windows may be viewed:

- → Profile of the day / hour:min / Tamb
- → Currently set temperature (e.g T3=20.0°) / hour:min /Tamb
- → Dd/Mm/Yyyy / hour:min /Tamb



USING THE JOLLY KEY

The **JOLLY** key allows you to force a temperature to a fixed value for a preset amount of time to replace normal operation.

The following window is displayed:

→ Duration of JOLLY status (HH h MM m) / hour:min / Tamb

Using the arrow keys \blacktriangle and \bigtriangledown allows you to change the duration of the JOLLY status with hourly steps. The Jolly temperature is set by pressing the key **TEMP**, which displays a window such as the following:

→ Tj=xx.x° / hour:min / Tamb

This window remains displayed until you press the key \blacktriangleleft once again, going back to the previous display, which indicates the duration of the status.

To exit JOLLY mode before time is up, you can change the number of hours to zero using the arrow key $\mathbf{\nabla}$ to go back automatically to the initial status, or else press **SEL** to choose the desired status, with the AUTO, MAN, HOLIDAY, OFF cycle.

USING THE OFF KEY

The **OFF** key allows you to switch the system off, in whatever operating status it is found. The following window is displayed:

→ OFF / hour:min / Tamb

Pressing **OFF** again sends you back to the previous operating status.



6.4 - RESET

Due to unexpected events, the device could need to be restarted [e.g following strong electromagnetic interference]: in this case, you may act by pressing the round key [RESET] located inside the device in the bottom right corner, using a paper clip or pin; the device restarts displaying the text: "Fantini Cosmi / CHI4IE" for a few seconds, and then goes to AUTO mode.



The previous configuration is retained as it is stored by the programmable thermostat. The date and clock are normally not changed.

If you wish to go back to default programming, the system can be restored by pressing RESET in PROG/CONFIG, which is exited in AUTO mode. In this case, all the settings and customisations made by the user will be lost and replaced with default settings, except date and time.

7 - MAINTENANCE

Use only a soft and dry cloth to clean the device. Do not use water or other liquid substances.

6 - DISPOSAL



Symbol of the crossed-out wheeled bin indicates that the product must be collected and disposed of separately from household waste. Batteries and the integrated accumulators may be disposed of together with the product. They will be separated at the recycling facilities. A black bar indicates that the product was placed on the market after August 13th, 2005. Participating in the separate collection of products and batteries contributes to the correct disposal of these materials and therefore avoids possible negative consequences for the environment and human health. For more detailed information on the collection

and recycling programs available in your country, contact the local authorities or the sales point where you purchased the product.



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