



K490I

Description

Electronic digital chronothermostat, with weekly programming for heating and cooling system control. For flush mounting installation.

Versions and product codes

Product code	Power supply	Maximum absorbed power	Battery life
K490IY001	230 V 50 Hz	5,5 VA	-
K490IY002	2 AAA 1,5V batteries	-	about 1 year

Technical data

Product code	K490IY001	K490IY002
Power supply	230 V 50 Hz	2 batteries AAA 1,5 V
Temperature regulation scale [°C]	2÷40	2÷40
Differential [K]	0,25	0,25
Temperature scale displayed [°C]	-35÷60	-35÷60
Connection to boiler	3 screw terminals (closed + open)	3 screw terminals (closed + open)
Contact rating:	5(3)A, 250 Vac	5(3)A, 250 Vac
Type of action	1.B.U (micro-disconnection)	1.B.U (micro-disconnection)
Software	class A	class A
Minimum adjustment differential [°C]	0,1	0,1
Thermal gradient for reference [K/h]	4	4
Maximum environment temperature [°C]	45	45
Electrical insulation	double insulation	double insulation
Protection degree	IP20	IP20
Pollution grade	2	2
Impulse voltage [V]	4000	4000
Classification of temperature control devices according to the EU Reg. No. 811/2013 - 813/2013	Energy class: IV, 2 %	Energy class: IV, 2 %

Installation

The chronothermostat package includes:

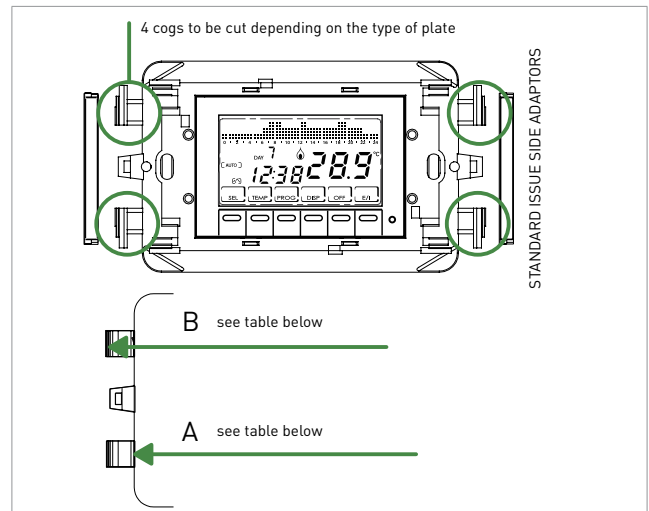
- 3 coloured covers,
- 3 special covers for Bticino Axolute and Ave Sistema 44,
- 3 pairs of coloured adaptors,
- 1 pair of adaptors for Bticino Matix.
- Mixed LCD display: graphics, symbols and digits with seven segments, backlit LED (blue).

Flush mounting installation in boxes with 3 x 503 -type modules with 2 screws (supplied).

Connection with user using 2 wires.

Fit the chronothermostat at 1,5 from the floor, away from kitchens, heat sources, windows and doors, on inside (not perimeter) walls.

It is possible to apply, without requiring any connection accessory, the following plates: (see table below)



Compatible plates	Cover * type	Frame type	Adaptors * Lateral	Cogs to be detached
Bticino Living International and flat transition	B	1	NO	NO
Bticino Living-light round LNA and square LNB	B	1	NO	NO
Bticino Light, Light tech	B	1	NO	NO
Bticino Axolute	A	1	NO	NO
Bticino Matix	B	2	YES (dedicated)	YES pos. A
VIMAR Idea and Rondò	B	2	YES	YES pos. B
Vimar Plana and Eikon	B	1	NO	NO
Gewiss Chorus One, Lux, Art	B	2	NO	YES pos. A
Ave Sistema 45, Banquise, Noir, Blanc, Yes	B	2	YES	NO
Ave Sistema 44 Zama, Personal	A	1	NO	NO
Legrand Cross, Vela square, Vela round	B	2	NO	YES pos. A

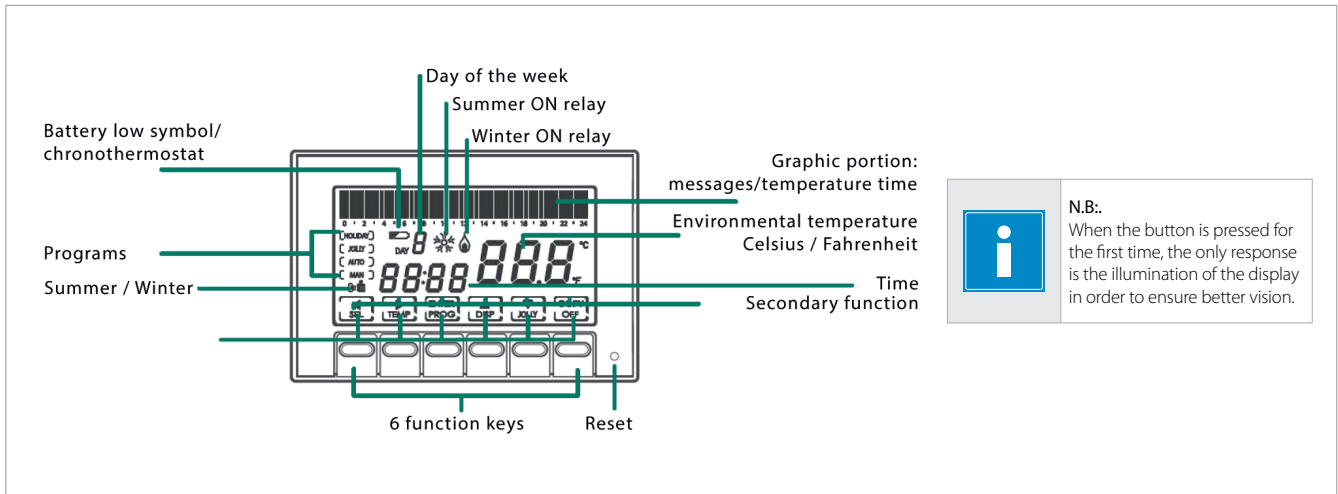
* N.B. available colours: white, silver and black (cover "a")
available colours: white, silver and black (cover "b")

Perform the following operations:

- Where necessary, detach the cogs depending on the type of plate.
- Where necessary, fit the side adaptors.
- Secure the base to the adapted frame.
- Tighten the frame on to the box with the screws supplied.
- Fit the cover on the body of the chronothermostat.
- Fit the plate.
- Insert the chronothermostat, making sure that it can be inserted/extracted freely, by simultaneously pressing both sides of the cover.

Button and display descriptions

The chronothermostat has 6 buttons. Their functions vary in relation to the situation and are described by the symbol shown on the display next to the button.



N.B.
When the button is pressed for the first time, the only response is the illumination of the display in order to ensure better vision.

Operation

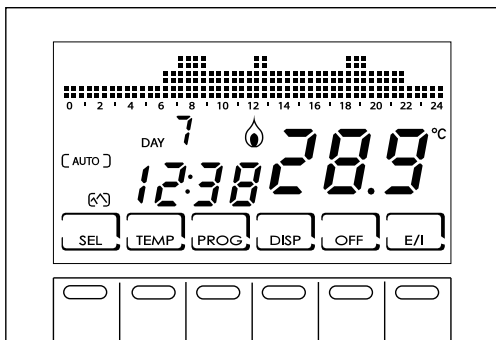
The K490IY001 version (mains power supply) allows the chronothermostat body to be pulled out after mounting and connections in order to perform adjustment or programming more conveniently with a hand-held device.

The K490IY002 version (battery power supply) does not allow the chronothermostat body to be pulled out.

The chronothermostat has 6 front buttons for direct access the modifiable function modes by pressing the relative button.

Display

- Environment temperature.
- Current time.
- Temperature profile displayed as a histogram.
- 6 programming icons



Operating modes

AUTO

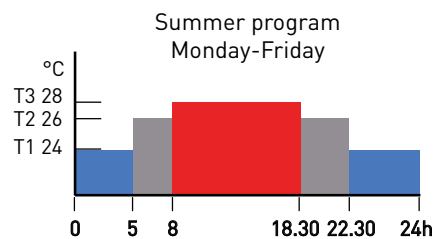
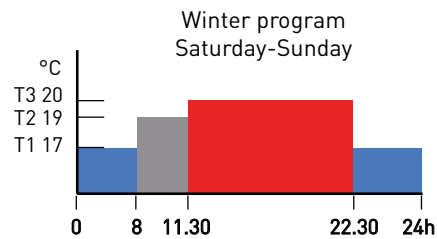
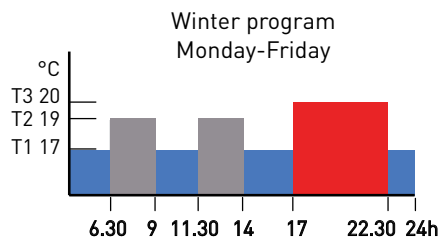
The chronothermostat manages the set temperature in relation to the hourly programs in the weekly profile.

It has 1 winter program and 1 summer program (pre-set).

The automatic function can be used to set three temperature levels T1-T2-T3.

- T1 can be set 2÷40 °C
- T2 can be set 2÷40 °C
- T3 can be set 2÷40 °C
- FO antifreeze 0÷7 °C

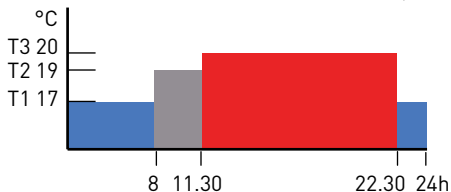
Nota.
T3 cannot be lower than T2 and T2 cannot be lower than T1.



HOLIDAY

The chronothermostat follows the hourly and temperature settings for day "H". This adjustment only halted by selecting a different mode of use. The chronothermostat has a preset Holiday program identical to Saturday and Sunday.

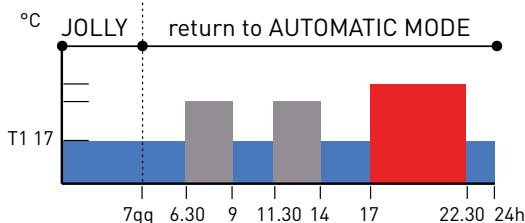
The automatic function has three settable temperature levels T1-T2-T3.



JOLLY

The chronothermostat manages the system by using 1 temperature that can be set on a period of time varying from 1 hour to 240 hours.

At the end of this preset time, the chronothermostat resumes the previously used operating mode. This function can be over-riden at any time by setting a different operating mode.



Example: Automatic mode - Jolly for 1 week - at end of Jolly period, the chronothermostat resumes automatic mode.

- T1 can be set 2÷40 °C

MAN

The chronothermostat adjusts the environment temperature using the temperature set on 24 hours.

- T1 can be set 2÷40 °C



OFF

Mode used to manage the antifreeze temperature set at 0÷7 °C. Completely shut down the system T1 = OFF.

Special functions

The functions can be set by accessing the chronothermostat's menu.

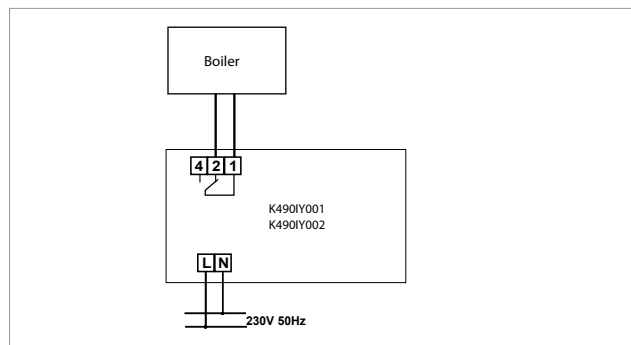
Frequent settings menu

- summer / winter
- summertime / standard time
- setting hour / day

Configuration menu

- Celsius / Fahrenheit
- temperature correction
- hourly profile customisation
- display illumination ON time (seconds)
- resetting default parameters

Electric connections



Avvertenza.
The installation must be carried out by qualified personnel. Before making the electrical connections, make sure that the electrical system is OFF using the main switch on the control panel.

Normative references

- Complies with standard EN 60730-2-9
- EC type-approval

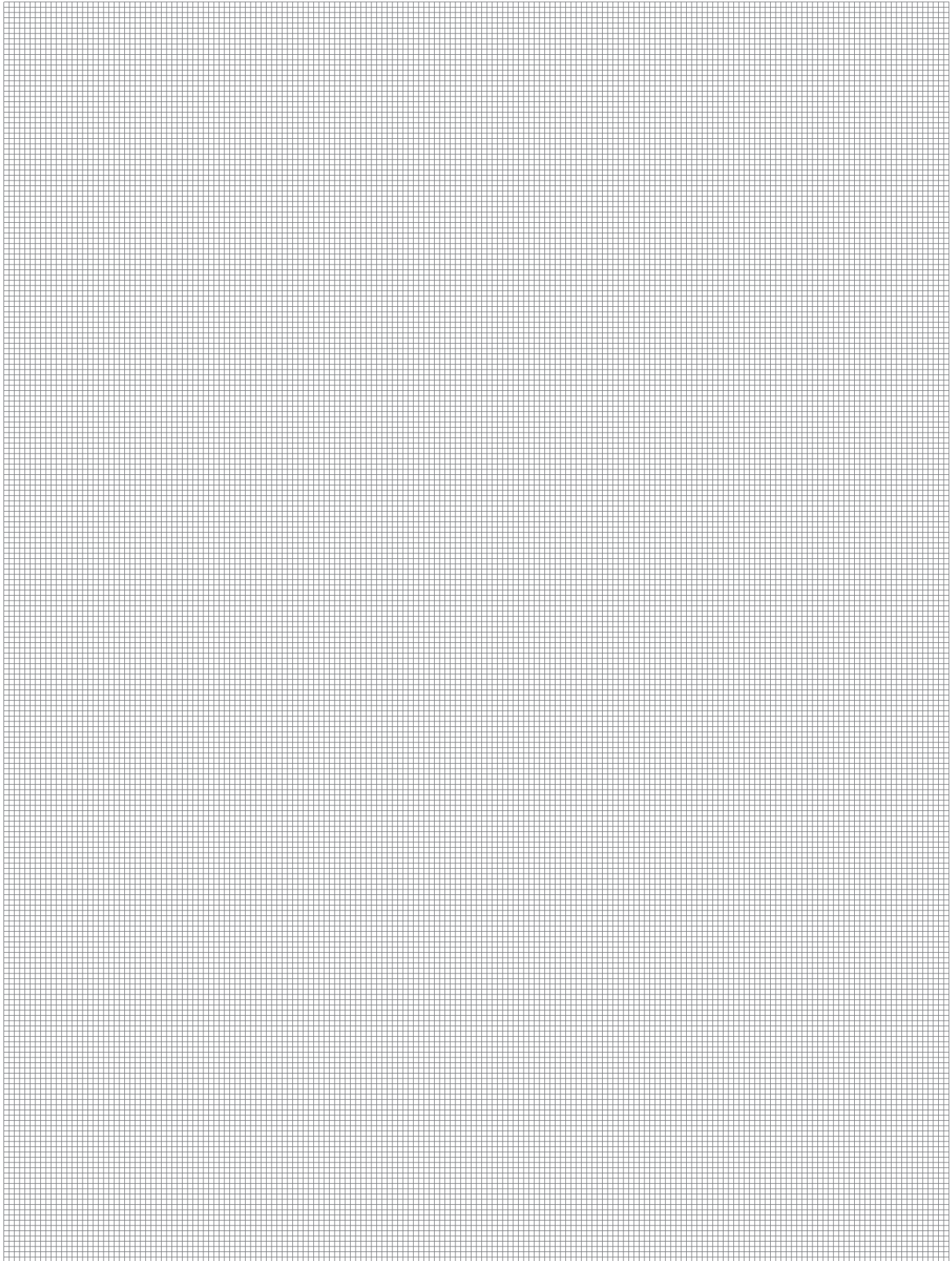
Product specifications

K490IY001

Electronic digital chronothermostat, with weekly programming for heating and conditioning system control. Flush mounting installation in 3 positions domestic box. Power supply 230 Vac, 50 Hz. Contact rating 5(3)A, 250 Vca. Protection degree IP20. Display for selecting operating mode: manual, automatic, jolly, holiday, antifreeze/off. Summer/winter setting. Voltage-free switching contact. Compatibility with the most common domestic plates. Temperature adjustment scale 2÷40 °C. Max. ambient temperature 45 °C. Complies with EN 60730-2-9 standards . CE type Approved. Classification of temperature control devices according to the EU Reg. No. 811/2013 - 813/2013: Energy class: IV, 2 %.

K490IY002

Electronic digital chronothermostat, with weekly programming for heating and conditioning system control. Flush mounting installation in 3 positions domestic box. Power supply with 2 AAA 1,5 V batteries. Contact rating 5(3) A, 250 Vca. Protection degree IP20. Display for selecting operating mode: manual, automatic, jolly, holiday, antifreeze/off. Summer/winter setting. Voltage-free switching contact. Compatibility with the most common domestic plates. Temperature regulation scale 2÷40 °C. Max. ambient temperature 45 °C. Complies with EN 60730-2-9 standards. CE type Approved. Classification of temperature control devices according to the EU Reg. No. 811/2013 - 813/2013: Energy class: IV, 2 %.



Additional information

For additional information please check the website www.giacomini.com or contact the technical service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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