



K492DY012

Description

Room chronothermo-humidistat **K492DY012** for external wall-mount installation including temperature and relative humidity sensor with two side relays, controls heating/cooling systems and one dehumidifier at the same time. The unit can be programmed weekly, with daily timer and manually.

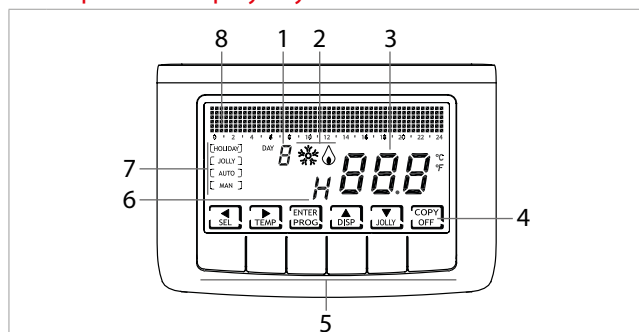
Versions and product codes

Product code	Power supply
K492DY012	230 V

Accessories

- K463PY001: immersion delivery temperature probe

Description of display keys



Legend

1	Day of the week
2	Activation status: cooling or heating
3	Room temperature (Celsius / Fahrenheit)
4	Multifunction key icons
5	Multifunction keys
6	Activation status: dehumidification
7	Operation mode
8	Bar graph to display messages and daily program



Notes

- The display lights up by pressing any key once.
- The function of each key varies with each program and it is shown on the display near the corresponding button.

Technical data

Temperature range	2÷40 °C, increase 0,1 °C
Room T measuring range / display	-50÷50 °C
Relative humidity regulation range	30÷70 %, increase 1 %
Room relative humidity measuring range /display	0÷100 %
Power supply	230 V, 50 Hz
Max. absorbed power	5 W
Type of output	2 relays with dry changeover contact (COM/NA/NC) 3 screw clamps (closed + open)
Type of input	• 1 auxiliary probe - NTC 10K - Lmax 100 m section 0,5÷1,5 mm ² (K463PY001) • 2 auxiliary inputs - free contacts
Back-up battery	For program and clock/calendar
Contact capacity	5(3)A 250 Vca
Type of action	1 B.U. (connection micro-switch)
Software	class A
Min. regulation differential	0,1÷5 K
Thermal gradient of reference	4 K/h
Max. room temperature	45 °C
Storage temperature	-10÷60 °C
Electric insulation	Double insulation
Protection class	IP30
Pollution degree	2
Pulse voltage	4000 V
Installation	Wall/flush mounting box
Dimensions	137 x 90 x 32 mm
Standards	EN 60730-1 standard and second parts
ErP class	ErP Class V; 3% [Reg. EU 811/2013 - 813/2013]



Installation



Warning.

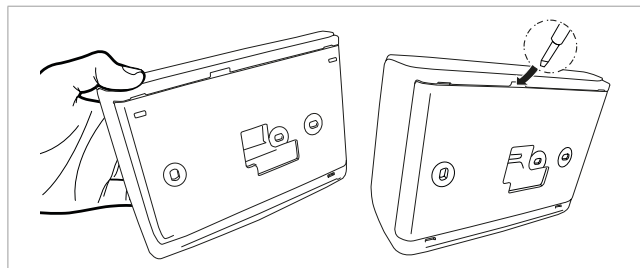
- This product must be installed by qualified operators only in compliance with standards provided for electric devices.
- The product must be installed with power off.

Chronothermohumidistat K492DY012 must be installed on a wall or inside a 3-module or round wall-mount box at approximately 1,5 m from the floor and in a position suitable to read the room temperature.

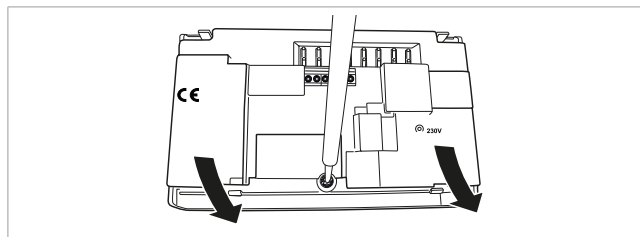
Do not install the thermostat on outside walls, near doors and windows and in positions under direct sunlight.

Follow the steps below to install the chronothermohumidistat:

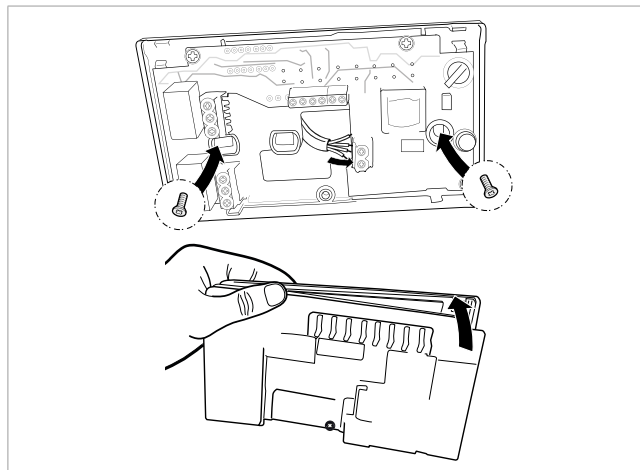
- Separate the back cover from the body prying on the slot.



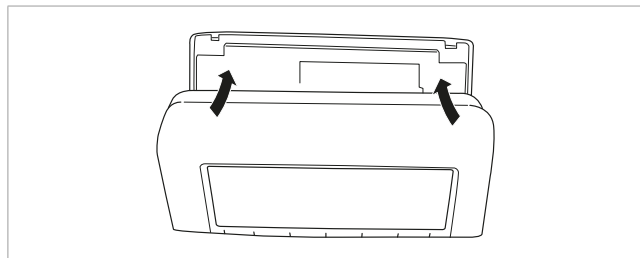
- Remove the insulation by unscrewing the special waterproof screw.



- Connect the wires (see "Electric connections") and fit the back cover on the wall using the screws included.

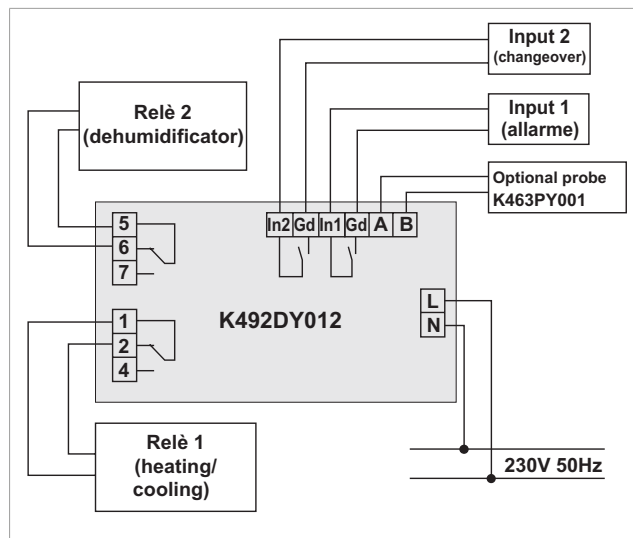


- Tighten the screw and snap the body on the back cover.



Electric connections

Connect the electric wires using the diagram below as reference.



Warning.

- Connect the electric wires with power off.
- The electric wires must be connected by qualified operators only.



Note.

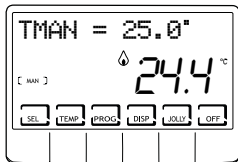
In case of blackouts, the settings will not be deleted as they are saved in a non-volatile memory. Uninterrupted operation of the clock/calendar in case of extended network failure is also guaranteed by an internal back-up battery.

Operation

Chronothermohumidistat K492DY012 is a device equipped with a temperature and relative humidity sensor with two side output relays. It controls heating/cooling systems and one dehumidifier at the same time. The LCD display shows the energy consumptions of the entire system through a user-friendly bar graph.

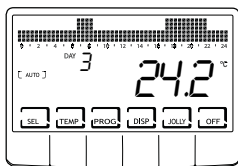
Operation programs

The chronothermohumidistat includes multiple operation programs to control heating/cooling.



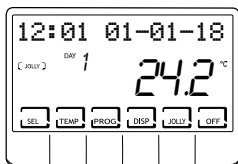
[MAN] MANUAL PROGRAM

The device controls the room temperature using a preset value specified from time to time and saved up to selection of a new program.



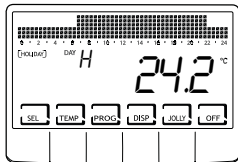
[AUTO] WEEKLY PROGRAM

The device controls the temperature set based on hourly programs of weekly profiles. Available temperature levels: tC, tE, tA, OFF (every half an hour).



[JOLLY] TEMPORARY PROGRAM

The device controls the system using a temperature that can be set along a variable time frame (the user enters the time and day up to which he wants to maintain a specific temperature).



[HOLIDAY] HOLIDAY PROGRAM

The device controls the system through an additional daily profile (when the user is home on holiday). Two temperature levels available: tC, tE, tA, OFF (every half an hour).

Standards of reference

- CE homologation
- EN 60730-1

Product specifications

K492DY012

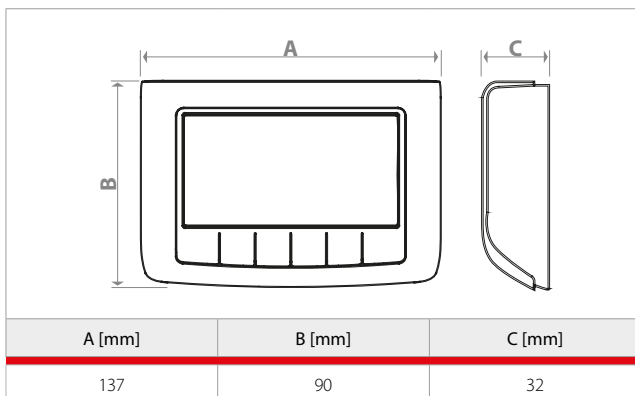
Digital electronic chronothermohumidistat with weekly programs to control heating and cooling systems. External wall-mount installation. Power supply 230 Vac, 50 Hz. Integrated room relative humidity sensor to engage dehumidifiers combined to the radiant system. Used to control thermo-electric actuators and dehumidifiers. Protection class IP30. Operation: manual, automatic, jolly, holiday. Summer/winter control. Working temperature range 2÷40 °C. Dimensions 137 x 90 x 32 mm. Homologation CE. Compliance with ErP Class V; 3 % (Reg. EU 811/2013 - 813/2013) and EN 60730-1 and second parts.

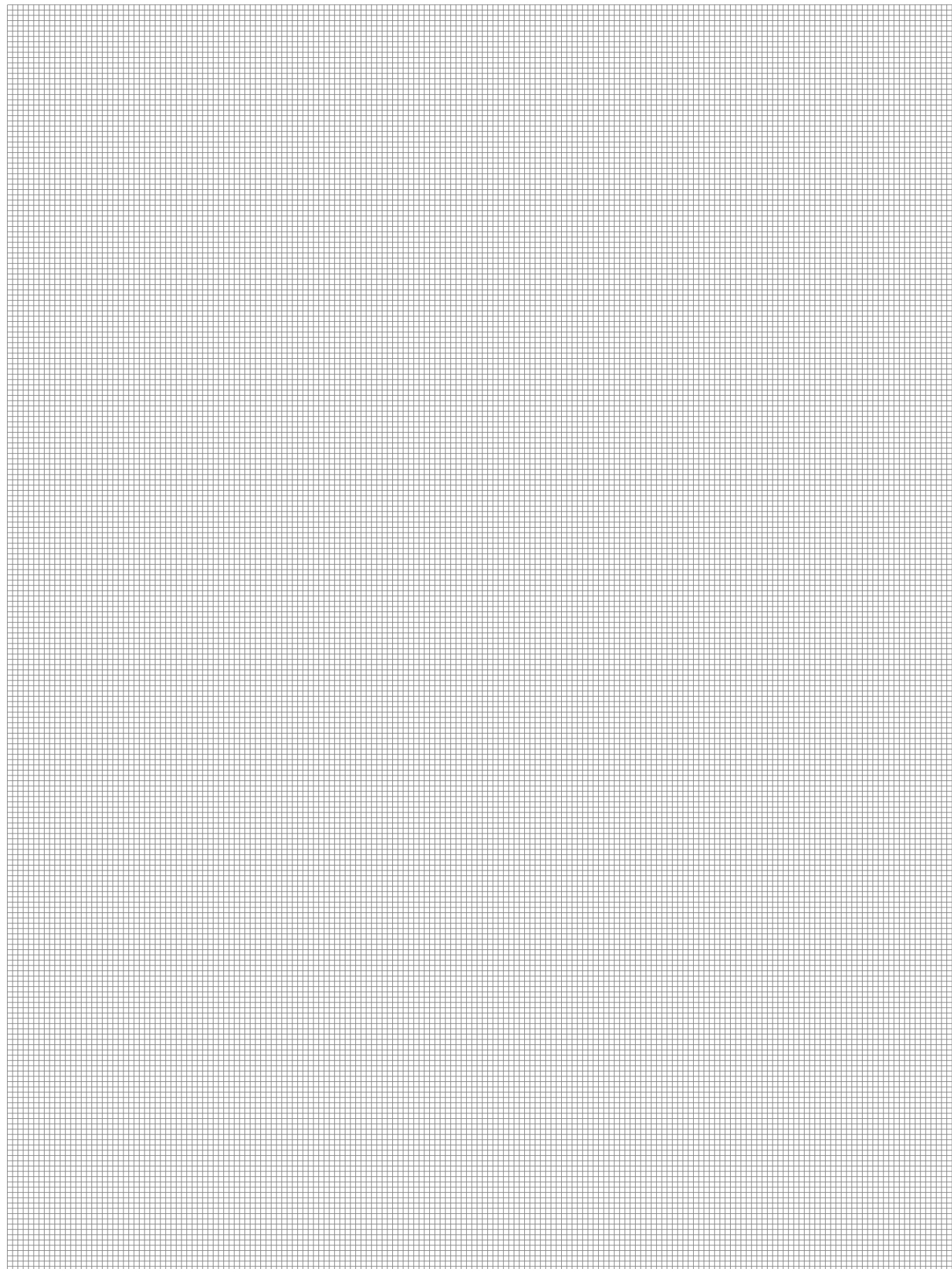


Note.

Refer to user manual included and www.giacomini.com for a detailed description of all functions and operation.

Dimensions





Additional information

For more information, go to www.giacomini.com or contact our technical assistance service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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