



KPM10

### Description

The KPM10 single zone room controller for heating and cooling with temperature and humidity sensor included, in combination with K463P delivery temperature probe, allows the ambient temperature and humidity regulation combined with mixing valve manage to control the delivery temperature. The KPM10 controller is equipped with 2 relay commands for control of the circulator and the dehumidifier. The mixing valve manage according to the logic proportional / integral / derivative is controlled in a voltage of 0...10 V. The selection of winter/summer mode is done by applying the 24 V voltage to the dedicated digital input.

### Versions and product codes

Product code	Supply
KPM10Y001	24 Vac

### Completion codes

- K463PY001: delivery temperature probe

### Technical data

- Power supply: 24 Vac +10...15%, 50/60 Hz, 1 VA / 24...32 Vdc, 1 W
- Safety power supply: class 2 / Min. cable cross-section 0,5 mm<sup>2</sup> / Power supply compatible with compactSteam (G-G0)
- Operating temperature: 0÷60 °C, 10÷90% rH not-condensing
- Storage temperature: -20÷70 °C, 10÷90% rH not-condensing
- Environmental pollution: normal
- Pollution: degree II
- Software class and structure: A
- Type of action: 1C
- Index of protection: IP20
- Ball pressure test temperature on plastic of front casing: 125 °C
- Classification according to protection against electric shock: 2, to be integrated into class 1 or 2 appliances
- Period of stress across the insulating parts: long
- Immunity against voltage surges: category 2
- Wire cross-section: 0,5÷1,5 mm<sup>2</sup>
- Precision of inside temperature measurement: ± 1 °C from 0 to 60 °C
- Precision of outside temperature measurement: NTC (10 kΩ) range -40÷80 °C precision ± 0,5 °C + sensor precision: ± 1 °C from 0 to 40 °C / ± 1,5 °C from -40 to 0 °C and from 40 to 80 °C
- 0 to 10 V analogue output, not isolated, for proportional control: precision ± 5 % max load 5 kΩ, max current 2 mA
- Relay approval: EN60730-1: NO 1(1)A 250 Vac cos φ = 0,4, 100.000 cycles  
UL-873: NO 1 A resistive 24 Vac, 30 Vdc, 100.000 cycles  
PILOT DUTY: 24 Vac, make 15 A, break 1 A, 30.000 cycles
- Precision of humidity measurement range 10...90 %: ± 3 % rH at 25 °C ± 5 % rH 0 to 60 °C
- Energy efficiency class ErP: class 4 + 4 %

### Installation

Open the product by detaching the front part from the mounting base, as shown in Fig. 1:

- Using a screwdriver, remove the screw holding the tab in the opening.
- Once having removed the screw, slide the plastic tab as shown in the figure so as to remove it from the instrument and be able to lever the catch.
- To open the instrument, press the tab on the front by inserting a flathead screwdriver into the slit in the middle on the bottom of the case and at the same time flip the front panel upwards.

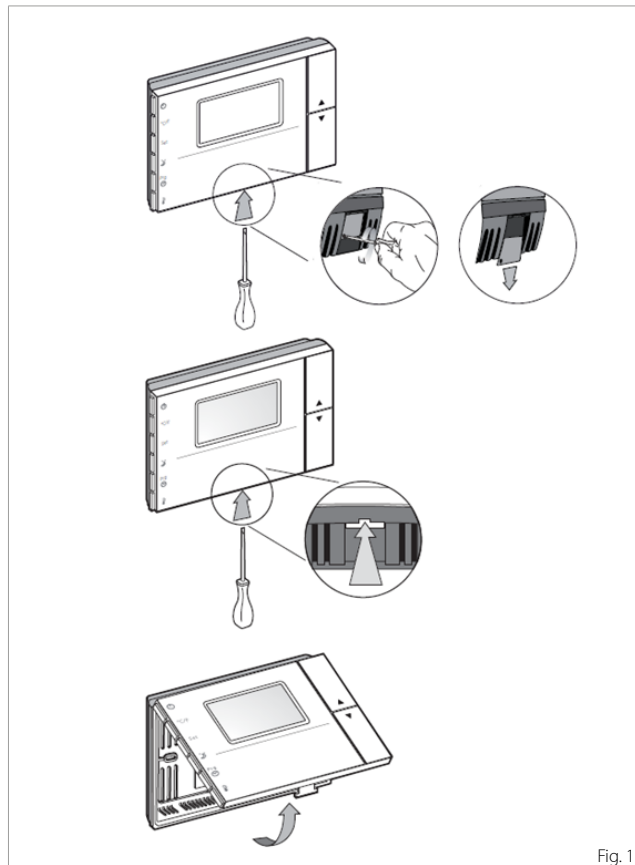


Fig. 1

- Once having completely removed the cover of the instrument, the two parts remain connected by a flat cable that can be disconnected from the front panel.
- Fasten the bottom of the clima to the wall using the screws contained in the packaging.
- To connect the wires to the terminal block, remove the terminal covers by squeezing the two fins.
- Make the required connections according to the model chosen, running the connection cables through the hole in the middle of the bottom shell and connecting them to the terminal block, observing the indications on the label. Separate the connection and control cables from the relay cables.



#### Warning.

Make sure all the power supply lines have been connected, both low voltage (24 Vac/dc) and, where necessary, high voltage for the relays (230 V), before reconnecting the front part of the instrument using Front-Rear flat cable.



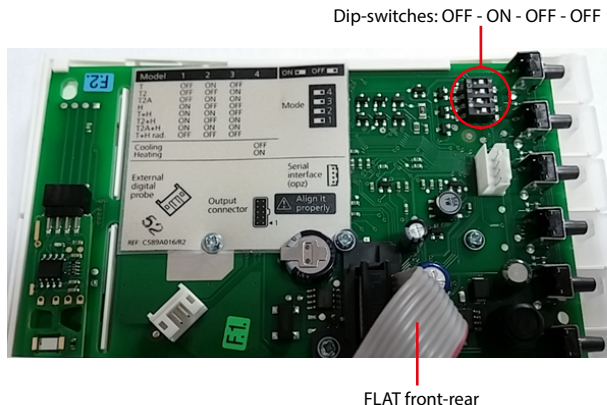
#### Note.

For the purposes of electrical safety (EN60730-1), once the controller has been installed, tighten the plastic tab in the housing for opening the instrument.

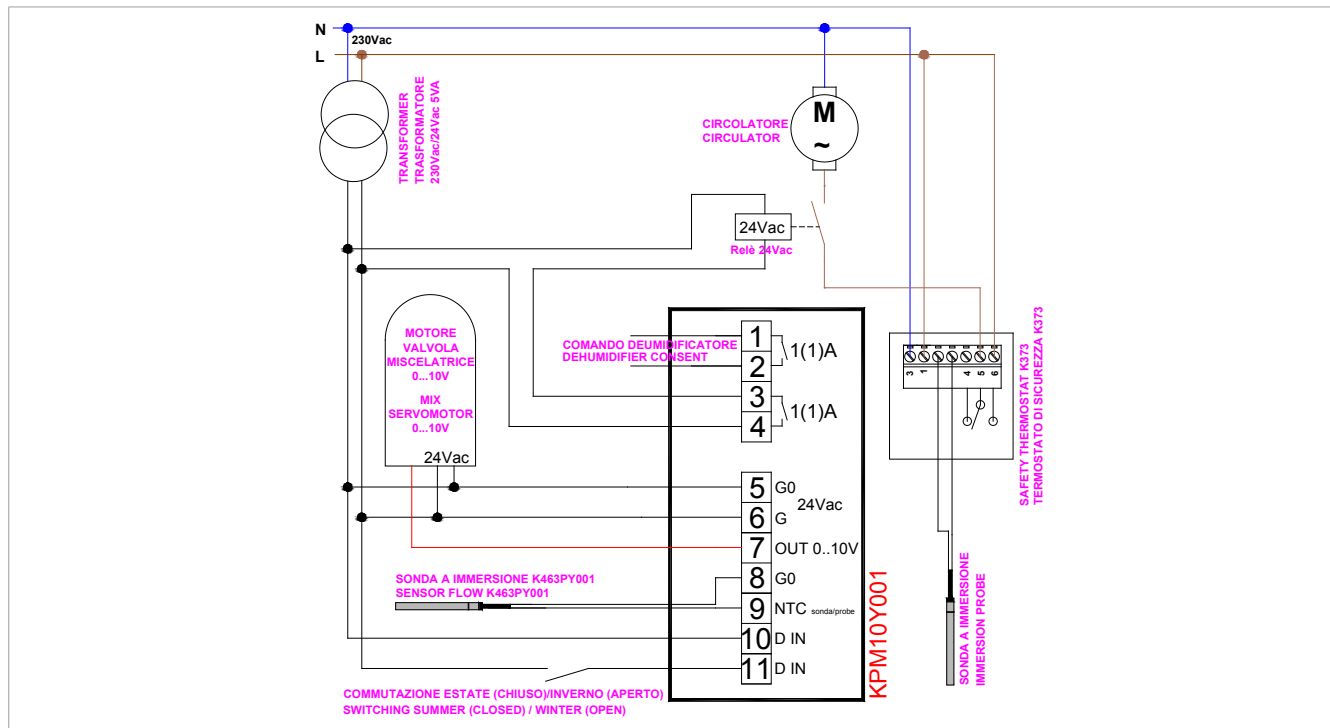


## Configuration

Connector	Function
FLAT front-rear	The flat front/rear connection cable must be reconnected in the position defined by the plastic part to ensure correct polarity
Dip-switches	For configuring operation mode (to set: OFF - ON - OFF - OFF)



## Electrical connections



## Wiring

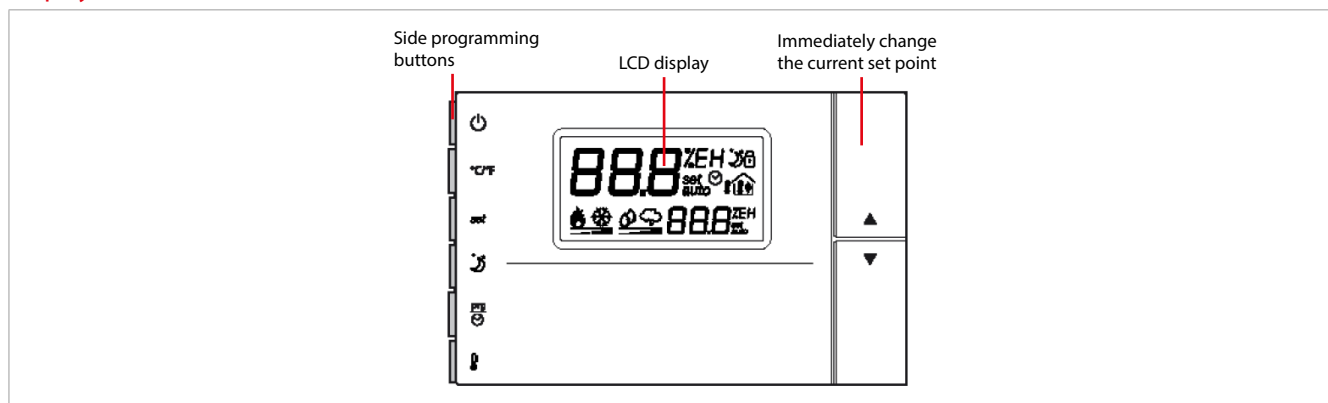
Digital input	With external power supply to 24 Vac contact: class 2 safety external power supply separate from the 24 Vac power supply to the instrument
Digital input connection	Maximum length 10 m, min. cable cross-section 0.5 mm <sup>2</sup> .
Analogue output connection	Maximum length 10 m, min. cable cross-section 0.5 mm <sup>2</sup> .
Relay output connections	Maximum length 30 m, cable cross-section from 1.5 to 2.5 mm <sup>2</sup> , class 2 reinforced insulation from the instrument. Basic insulation between the relays.
UL specifications for connections	Use copper wires approved for a temperature of 75 C. Minimum cross-section AWG 22-14 rigid or flexible. To tighten the terminals, apply a torque of 7 Lb/In for the black terminals (SAURO). To use the instrument in compliance with UL-873, a load with a maximum voltage 24 Vac, class 2, can be connected to the relay output.



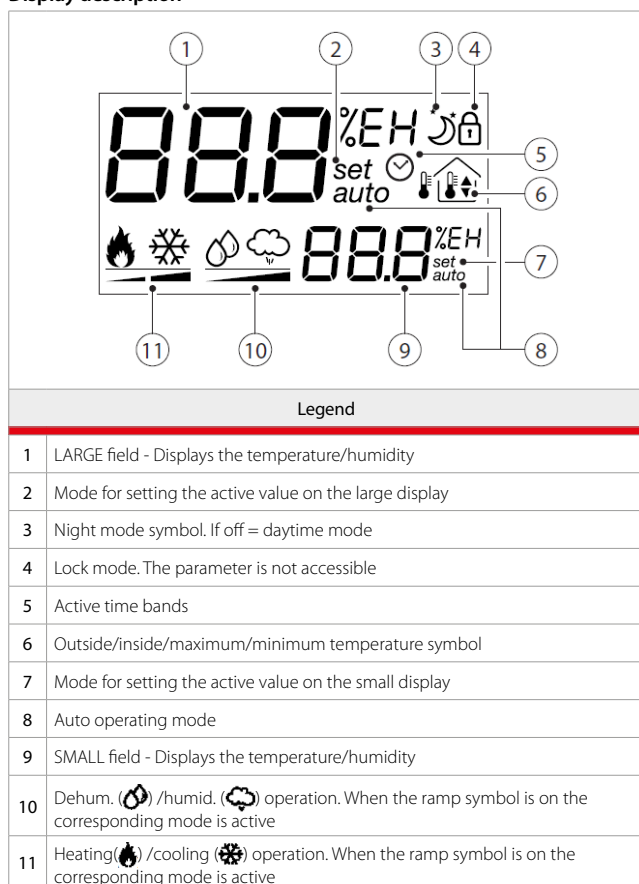
**Warning.**  
All the connections, except for the relays, must be connected to very low voltage circuits with reinforced insulation.



## Display and buttons



### Display description



### Buttons description

Buttons	Description
	KPM10 ON/OFF
°C/°F	Selects the temperature display mode, degrees Celsius or Fahrenheit. Whenever pressed switches the temperature units.
set	Used to display and where necessary change, using the UP and DOWN buttons, the set point displayed in the SMALL field. <b>If held for more than 5 sec accesses the parameters menu.</b> To scroll the various parameters use UP and DOWN. To edit them press the SET button a second time and to exit the parameters menu press the PRG button. Access to the parameters is protected by password if parameter PS is enabled.
	Change mode manually: activates the opposite function (and the corresponding set point) to the current (night if day or day if night), for the set time. To change or reset the timer use the UP and DOWN buttons to increase or decrease the time. Press a second time to exit and return to the main menu. If sleep mode is already active, pressing the button shows the time remaining on the timer.  E.g.: if the clima is in Night mode (moon symbol on) from time band, pressing this button activates daytime mode (moon symbol off) for the set time.
prg 	Accesses the menu for setting the clock, the time bands, and the default value of the timer. When first pressed displays the current time (RTC); to display the other parameters, use the UP and DOWN arrows. To set a new value, press SET when displaying the desired parameter and change the value using the UP and DOWN buttons. Press a second time to exit and return to the main menu.
	Accesses the menu for displaying the temperature: current, maximum and minimum outside (from instrument power on), inside and outside. To display the various temperatures, press the button repeatedly. Their meaning is displayed in the box with the home symbol. Also displays the value of the analogue output when "Out" is shown in the SMALL field.
▲	From the main menu increases the value of the set point displayed in the LARGE field. In the other menus displays the variables or the parameters, or alternatively sets the value after having pressed SET.
▼	From the main menu decreases the value of the set point displayed in the LARGE field. In the other menus displays the variables or the parameters, or alternatively sets the value after having pressed SET.

The values displayed in the LARGE and SMALL fields depend on the setting of parameter **dyS**, as shown in the following table:

dyS temper. and humidity	LARGE field	SMALL field
1	Humidity	Temperature
2	Temperature	Humidity
3	Temperature set point	Humidity set point
4	Humidity set point	Temperature set point

dyS parameter must be set at 2.

**SINGLE ZONE ROOM CONTROLLER FOR HEATING AND COOLING WITH TEMPERATURE AND HUMIDITY SENSOR INCLUDED - KPM10**

**GIACOMINI**  
 WATER E-MOTION

**Main parameters to be set**

The parameters for each operating mode also feature a default value, and these values can be restored by running the "Factory set" operation.

See the table of parameters for details of the default values and settings.

Code	Parameter	Range	Default	UOM.	Giacomini Standard
	Day temperature set point in cooling	10...50	24,0	°C	
	Night temperature set point in cooling	10...50	26,0	°C	
	Day temperature set point in heating	10...50	20,0	°C	
	Night temperature set point in heating	10...50	18,0	°C	
tHH	High water temperature limit in heating	15...80	45,0	°C	
tHL	Low water temperature limit in heating	15...80	23,0	°C	
tHH	High water temperature limit in cooling	5...35	30,0	°C	
tHL	Low water temperature limit in cooling	5...35	10,0	°C	
tAH	High room temperature limit in heating	15...40	24,0	°C	
tHL	Low room temperature limit in heating	15...40	16,0	°C	
tAH	High room temperature limit in cooling	5...35	30,0	°C	
tAL	Low room temperature limit in cooling	5...35	16,0	°C	
dfA	Temperature differential of water temperature control	0...20	20	°C	20
tlA	Integration time in seconds to calculate integral error in the water temperature control algorithm	0...999	100	sec.	100
tdA	Derivate time in seconds to calculate derivate error in the water temperature control algorithm	0...999	20	sec.	20
tlN	Integration time in minutes to calculate integral error in the water temperature control algorithm	1...100	10	min.	
tr	Observation time for compensation of the water temperature limit (OFF = compensation not enabled)	OFF..225	OFF	min.	
ddP	Dewpoint delta for adjusting the water temperature set point	-20...20	0,0	°C	
EdP	Enable water temperature set point limit to avoid condensation	no, yes	no	-	YES
	Humidification set point	10...70	50,0	% rH	10
	Dehumidification set point	10...70	70,0	% rH	60
dFH	Humidity differential for the activation of the analogue output and the relay	1...20	5,0	% rH	
dFd	Dehumidification differential for the activation of the relay	1...20	5,0	% rH	
SFH	Parameter to define the humidification/dehumidification status in day and night mode: Activates or deactivates humidific. or dehumidific. control (based on DIP4) with the time bands.  The parameter can have the following values:  <b>0 - Time bands disabled.</b> The humidification/dehumidification control is always active, if featured, and is configured in relation to DIP4.  <b>1 - Time bands enabled.</b> When switching to the daytime band, humidification/dehumidification control (depends on DIP4) is activated. When switching to the night band, humidification/dehumidification control (depends on DIP4) is deactivated.  <b>2 - Time bands enabled.</b> When switching to the daytime band, humidification/dehumidification control (depends on DIP4) is deactivated. When switching to the night band, humidification/dehumidification control (depends on DIP4) is activated.	0...2	0	-	
AUT	Humidity set point automatically compensated by the outside temperature. If humidity control is featured, the ambient humidity is controlled with an automatic set point, defined from 1H to 7H using the buttons, as specified in the corresponding table. If set to OFF the mode is disabled. Setting one of the levels in the table, the controller independently sets a humidity set point in relation to the outside temperature.	OFF 1H...7H	OFF	-	

CSt	Parameter for set point compensation. Parameter CSt enables and sets the gain for set point compensation according to the outside temperature. If CSt = 0 compensation is disabled. Also see parameters Ctt and Cts.	-1...1	0,0	°C	
CdF	Max differential for the compensated set point. The maximum value for the compensated set point is limited by this parameter. In heating mode, if the difference calculated for set point compensation is higher than CdF, the instrument uses CdF as the maximum difference from the set point. Similarly, in cooling mode if the difference calculated for set point compensation is less than CdF, the instrument uses CdF as the maximum difference from the set point.	0...20	2,0	°C	
Ctt	Threshold for set point compensation in heating mode Temperature set point compensation in heating based on the outside temperature measurement: <b>compensated setpoint = setpoint - (setpoint - Text - Ctt) * CSt</b> Compensation is activated only if: <b>Text &lt; setpoint - Ctt</b>	0...25	10,0	°C	
Cts	Threshold for set point compensation in cooling mode. Temperature set point compensation in cooling based on the outside temperature measurement: <b>compensated setpoint = setpoint + (Text - setpoint - Cts) * CSt</b> Compensation is activated only if: <b>Text &gt; setpoint + Cts</b>	0...25	10,0	°C	
AdC	Configuration T2A e T2A+H: Additional modes for the automatic operation: For temperature control only (T2A): <b>Configuration 1:</b> temperature control with set point and dead band only (2xdS1). <b>Configuration 2:</b> temperature control only with automatic changeover of the set point. <b>Configuration 3:</b> temperature control only with cooling and heating set point, automatic changeover and manual ON/OFF control for outlet fan.	1...3	1	-	
	For temperature + humidity control (T2A+H): <b>Configuration 1:</b> temperature control with set point and dead band only (2xdS1). Two set points for humidity. <b>Configuration 2:</b> temperature and humidity control with cooling and heating set point and automatic changeover.	1...2		-	
dyS	Active display configuration. Used to set the values shown in the large and small fields on the display.	1...4	1	-	2
rtC	Current time. The large field displays the hours and the small field the minutes.	00:00 23:59	00:00	h	
SLP	Duration of manual day-night mode changeover. The large field displays the hours and the small field the minutes (15 minute steps)	0...12	8 h	h	
dAy	Day band threshold. The large field displays the hours and the small field the minutes (15 minute steps)	00:00 23:59	8:00	h	
nlt	Night band threshold. The large field displays the hours and the small field the minutes (15 minute steps)	00:00 23:59	20:00	h	
dl	Digital input configuration: OFF: disabled 1 select remote cooling /heating 2 remote ON/OFF 3 select day/night (alternative set) 4 remote alarm	OFF...4	OFF	-	1
POL	Digital contact polarity. Used to choose whether to consider the digital input active when closed or open or alternatively whether or not there is voltage in the optically-isolated version. <b>Voltage-free contact:</b> nE: active when the input is closed PO: active when the input is open <b>Optically isolated:</b> nE: active when voltage is present at the input PO: active when voltage is not present at the input	nE, PO	nE	-	PO



	Control cooling/heating operating mode. Enables the possibility to define the operating mode, cooling/heating, by parameter rather than by DIP 4. dIS: Parameter EI is disabled, cooling/heating mode is selected by DIP 4 on the rear. En: Parameter EI is enabled, cooling/heating mode is selected by parameter EI.	dIS, En	dIS	-	
	Select cooling/heating operation only active if this mode is enabled by the previous parameter. Selects the mode, cooling or heating. E: The instrument works in cooling mode I: The instrument works in heating mode	E, I	E	-	
	Instrument output control mode. Enabling this parameter allows the outputs to be controlled directly via the serial connection. Warning, if enabled no control is performed independently by the instrument. If active and the supervisor does not query the instrument for more than two minutes, the outputs are automatically disabled and the no link error (ELn) is signalled on the display. no: the function is disabled. yES: the function is enabled.	no, yES	no	-	
	Inside temperature calibration, digital sensor or NTC. Within a maximum of $\pm 10$ °C	-10...10	0.0	°C	
	Outside temperature calibration, NTC sensor. Within a maximum of $\pm 10$ °C	-10...10	0.0	°C	
	Digital humidity sensor calibration. Within a maximum of $\pm 15$ % rH.	-15...15	0.0	% U.R.	
	Parameter access level. Level of access the control parameters for the active mode: Level 1: basic access, only the essential parameters for correct operation. Level 2: advanced access, used to set all the parameters for the selected control mode.	1, 2	1	-	
	Lock. The lock parameter used to disable some functions of the instrument, as per the following settings: LOC = OFF. LOC = 1: The UP/DOWN and time bands buttons are disabled. LOC = 2: Only the time bands button is disabled. In these cases, the LOCK symbol is shown on the display whenever attempting to perform an unauthorised operation.	OFF...2	OFF	-	
	Temperature display mode. Sets the temperature display mode, in degrees Fahrenheit or Centigrade. Unlike direct selection using the button, if changing the temperature display mode using parameter Unt, this becomes the default display mode when switching the instrument on.	°C, °F	°C	-	
	Parameter for control with average value sensor values. Defines the average control temperature (Tm), based on the weighted average of the inside temperature (TI) and outside temperature (TE). Both the measurements must be valid and Tm is achieved with the following formula: $Tm = (TI * (100 - nEd) + TE * nEd) / 100$ The average temperature calculated is used for control and display.	0...100	0.0	%	
	RS485 serial address (the external option code IROPZ48500 is required). It can be read by the supervisor and can only be changed with direct access on the instrument.	1...207	1	-	
	Select serial communication protocol: 0: Owner protocol 9.6 kb/s 1: Owner protocol 19.2 kb/s 2: Modbus 9.6 kb/s, even parity, 8 bits, 1 stop 3: Modbus 19.2 kb/s, even parity, 8 bits, 1 stop 4: Modbus 9.6 kb/s, no parity, 8 bits, 2 stop 5: Modbus 19.2 kb/s, no parity, 8 bits, 2 stop	0...5	1	-	3
	Password for accessing the parameters Set to 0: no password is required. Set other than zero: the same value must be entered to access the parameters.	0...999	0	-	
	Factory set. Reset the default values (manufacturer) on the instrument for the current mode.	no, yES	no	-	

#### • Clock, TIME BANDS Prg/Clock (clock):

press the corresponding button to display and if necessary set the default duration of the change mode timer, display or set the RTC clock and set the Day and Night time bands.

rtC	clock hh:mm	-
SLP	manual changeover duration	default 8 h.
dAy	start day band	default 08:00
nIt	start night band	default 20:00

Once having displayed the desired parameter using the UP/DOWN buttons, press SET and the parameter starts flashing.

Edit the value using the UP/DOWN buttons and then press SET.

To exit the menu, press the PRG button again.

To disable the time bands function, set parameter rtC off:

• Select parameter rtC using PRG/CLOCK and set the value using the DOWN button.

• When reaching 00:00 using the DOWN button the function will be off.

When parameter rtC is set to off the operating mode is always daytime, and consequently only the daytime set points are used, the night settings are only used when the NIGHT button is pressed, manually changing mode.

The same is true for models without the RTC function. When the time bands are set, the CLOCK symbol is shown on the display.

### Additional functions

The controller features a series of additional functions, as described below.

#### Change night/day mode manually Night (night)

This activates the opposite function to the current (night if day or day if night), for the set time.

Pressing the NIGHT button once accesses the timer menu and displays the duration.

To change the duration of the temporary mode use the UP/DOWN buttons.

To change the value of the timer permanently, access the Prg menu and set parameter SLP.

To set the current timer to zero and return the instrument to the original mode, press the NIGHT button, the remaining time is displayed, then press DOWN until reaching the value 0. The instrument, after having briefly displayed the message OFF SLP, automatically returns to the main menu. Once having set the timer, pressing the NIGHT button displays the time remaining on the timer. This value can be changed at any time.

To exit the menu press the NIGHT button again.

#### Example of operation with time bands:

RTC: fitted and configured, the time is 15:55, the symbol is on

dAy: 8:00

nIt: 16:00

At 16:00 the controller will switch to Night mode with a lower (in heating) or higher (in cooling) temperature setting.

Assuming the user wants to extend Day mode for a further 3 hours, having to work late in the office.

The following operations are required:

- press the NIGHT button;
- set the timer to 3h and 00' using the DOWN button;
- press the NIGHT button to confirm the setting.

The KPM10 returns to Day mode with the corresponding set point. It will automatically return to Night mode according to the time bands when the timer reaches zero.





### Sensor calibration

To make up for any errors due to the length of the cables or the sensors connected, the controller features two parameters for calibrating the values read by the sensors. The following parameters are involved:

Code	Parameter	Range	Default	UOM.	Giacomini Standard
CAL+Int 	Inside temperature calibration, digital sensor or NTC. Within a maximum of $\pm 10$ °C.	-10...10	0.0	°C	
CAL+Est 	Outside temperature calibration, NTC sensor. Within a maximum of $\pm 10$ °C.	-10...10	0.0	°C	
CAL+HU 	Digital humidity sensor calibration. Within a maximum of $\pm 15\%$ rH.	-15...15	0.0	% rH	

### Password

On all models a password (PS) can be set for accessing the parameters. Once the value of PS has been set (other than zero), this value must be entered in order to access the parameters.


**Nota.**

Make sure the password is kept in a safe place, as without it the parameters can no longer be accessed. The value can only be reset from the supervisor or using the parameter copying key.

Code	Parameter	Range	Default	UOM.	Giacomini Standard
PS	Password for accessing the parameters. Set to 0: no password is required to access the parameters. Set other than zero: the same value must be entered to access the parameters.	0...999	0	-	

### Antifreeze

To prevent the formation of ice and frost, the controller features the antifreeze function, which activates the relay dedicated to the temperature function regardless of the control mode, when in heating operation. Antifreeze is available in all control modes, apart from humidity only, and the corresponding relay is activated when the temperature falls below 5 °C. The function is also active when the instrument is off and is enabled 20 seconds after shutdown.

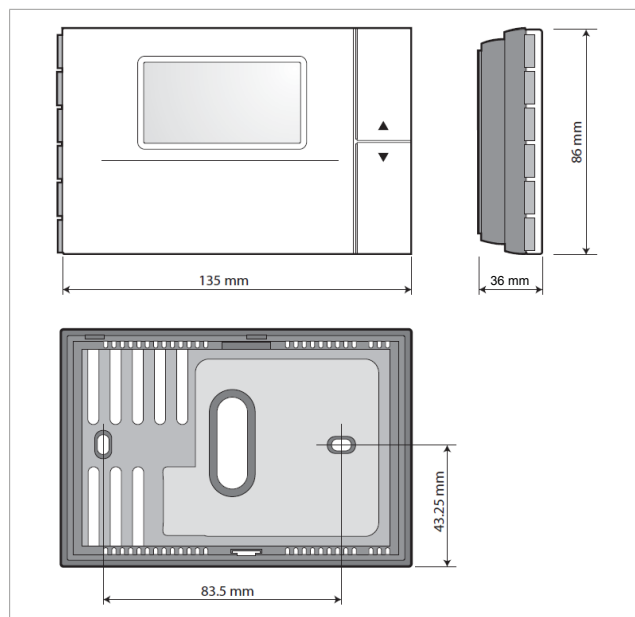
### Alarms and messages

Code on display	Description	Reset	Effect
EE	System/memory error	Manual	Stops all outputs
Eth	Temperature+humidity sensor fault	Automat.	Stops all outputs and disables the calculation of the dewpoint
E1	Built-in NTC temperature sensor fault	Automat.	Stops all outputs
E2	Remote temperature sensor fault	Automat.	Stops compensation if active, and control on average if enabled
Ert	RTC alarm	Automat.	-
EHi	High control temperature alarm, radiant floor	Automat.	Stops all outputs
ELo	Low control temperature alarm, radiant floor	Automat.	Stops all outputs
ELn	Serial connection alarm	Automat.	Only active if I/Os managed via serial connection
ALE	External alarm from digital input	Automat.	Signal-only alarm from external contact (humidifier)


**Nota.**

When the value is not shown in the SMALL or LARGE field, three dashes "----" are displayed.

### Dimensions


**Warning.**

The customer must only use the product in the manner described in the documentation relating to the product.

In addition to observing any further warnings described in this manual, the following warnings must be heeded for all products:

- prevent the electronic circuits from getting wet. Rain, humidity and all types of liquids or condensate contain corrosive minerals that may damage the electronic circuits. In any case, the product should be used or stored in environments that comply with the temperature and humidity limits specified in the manual;
- do not install the device in particularly hot environments. Too high temperatures may reduce the life of electronic devices, damage them and deform or melt the plastic parts. In any case, the product should be used or stored in environments that comply with the temperature and humidity limits specified in the manual;
- do not attempt to open the device in any way other than described in the manual;
- do not drop, hit or shake the device, as the internal circuits and mechanisms may be irreparably damaged;
- do not use corrosive chemicals, solvents or aggressive detergents to clean the device;
- do not use the product for applications other than those specified in the technical manual.

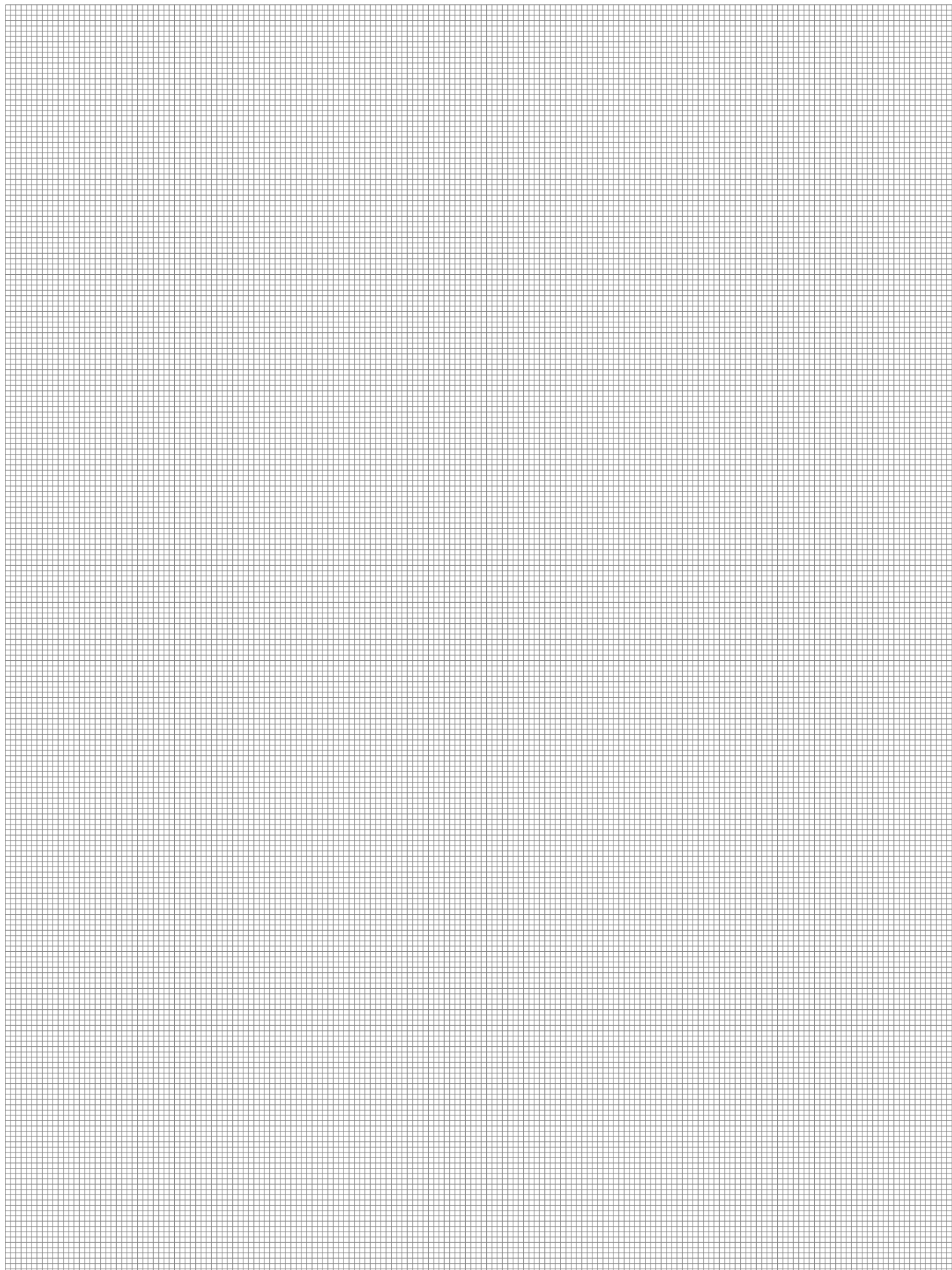

**Smaltimento.**

The product is made from metal parts and plastic parts.

In reference to European Union directive 2002/96/EC issued on 27 January 2003 and the related national legislation, please note that:

1. WEEE cannot be disposed of as municipal waste and such waste must be collected and disposed of separately;
2. the public or private waste collection systems defined by local legislation must be used. In addition, the equipment can be returned to the distributor at the end of its working life when buying new equipment.
3. the equipment may contain hazardous substances: the improper use or incorrect disposal of such may have negative effects on human health and on the environment;
4. the symbol (crossed-out wheeled bin) shown on the product or on the packaging and on the instruction sheet indicates that the equipment has been introduced onto the market after 13 August 2005 and that it must be disposed of separately;
5. in the event of illegal disposal of electrical and electronic waste, the penalties







### IT AVVERTENZE PER IL CORRETTO SMALTIMENTO DEL PRODOTTO

Questo prodotto rientra nel campo di applicazione della Direttiva 2012/19/UE riguardante la gestione dei rifiuti di apparecchiature elettriche ed elettroniche (RAEE). L'apparecchio non deve essere eliminato con gli scarti domestici in quanto composto da diversi materiali che possono essere riciclati presso le strutture adeguate. Informarsi attraverso l'autorità comunale per quanto riguarda l'ubicazione delle piattaforme ecologiche atte a ricevere il prodotto per lo smaltimento ed il suo successivo corretto riciclaggio.

Si ricorda, inoltre, che a fronte di acquisto di apparecchio equivalente, il distributore è tenuto al ritiro gratuito del prodotto da smaltire.

Il prodotto non è potenzialmente pericoloso per la salute umana e l'ambiente, ma se abbandonato nell'ambiente impatta negativamente sull'ecosistema.

Leggere attentamente le istruzioni prima di utilizzare l'apparecchio per la prima volta.

Si raccomanda di non usare assolutamente il prodotto per un uso diverso da quello a cui è stato destinato, essendoci pericolo di shock elettrico se usato impropriamente.



Il simbolo del bidone barrato, presente sull'etichetta posta sull'apparecchio, indica la rispondenza di tale prodotto alla normativa relativa ai rifiuti di apparecchiature elettriche ed elettroniche.

L'abbandono nell'ambiente dell'apparecchiatura o lo smaltimento abusivo della stessa sono puniti dalla legge.

### EN IMPORTANT INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT

This product falls into the scope of the Directive 2012/19/EU concerning the management of Waste Electrical and Electronic Equipment (WEEE).

This product shall not be disposed in to the domestic waste as it is made of different materials that have to be recycled at the appropriate facilities.

Inquire through the municipal authority regarding the location of the ecological platforms to receive the product for disposal and its subsequent correct recycling. Furthermore, upon purchase of an equivalent appliance, the distributor is obliged to collect the product for disposal free of charge.

The product is not potentially dangerous for human health and the environment, but if abandoned in the environment can have negative impact on the environment.

Read carefully the instructions before using the product for the first time.

It is recommended that you do not use the product for any purpose rather than those for which it was intended, there being a danger of electric shock if used improperly.



The crossed-out wheeled dustbin symbol, on the label on the product, indicates the compliance of this product with the regulations regarding Waste Electrical and Electronic Equipment.

Abandonment in the environment or illegal disposal of the product is punishable by law.

### FR AVERTISSEMENTS POUR L'ÉLIMINATION CORRECTE DU PRODUIT

Ce produit entre dans le champ d'application de la directive 2012/19 / UE relative à la gestion des déchets équipements électriques et électroniques (DEEE).

L'appareil ne doit pas être jeté avec les ordures ménagères car il est fait de différents matériaux pouvant être recyclés dans des centres appropriés.

Renseignez-vous auprès de l'autorité locale concernant l'emplacement des plates-formes écologiques appropriées pour recevoir le produit pour sa destruction et son recyclage correct ultérieur.

Il convient également de rappeler que, en cas d'achat d'un appareil équivalent, le distributeur est tenu de collecter le produit à détruire.

Le produit n'est potentiellement pas dangereux pour la santé humaine et l'environnement, mais s'il est abandonné dans l'environnement, il a un impact négatif sur l'écosystème.

Lisez attentivement les instructions avant d'utiliser l'appareil pour la première fois.

Il est interdit d'utiliser le produit pour un usage différent de celui auquel il était destiné, il y a risque de choc électrique si utilisé incorrectement.



Le symbole de la poubelle barrée sur l'étiquette de l'appareil indique sa correspondance produit à la législation relative aux déchets d'équipements électriques et électroniques.

L'abandon dans l'environnement de l'équipement ou l'élimination illégale de l'équipement est punissable par la loi.

### DE WICHTIGE HINWEISE ZUR KORREKTEN ENTSORGUNG DES PRODUKTS

Dieses Produkt fällt in den Anwendungsbereich der Richtlinie 2012/19/EU über die Entsorgung von Elektro- und Elektronik - Altgeräten (WEEE).

Dieses Produkt darf nicht in den Hausmüll entsorgt werden, da es aus verschiedenen Materialien besteht, die in entsprechenden Einrichtungen recycelt werden müssen.

Erkundigen sie sich bei ihrer Gemeinde nach dem Standort des nächsten Recyclinghofs bzw. der nächsten Annahmestelle, um das Produkt dem Recycling zuzuführen bzw. fachgerecht zu entsorgen.

Darüber hinaus ist der Händler verpflichtet, das Produkt beim Kauf eines gleichwertigen Geräts kostenlos zu entsorgen.

Das Produkt ist für die menschliche Gesundheit und die Umwelt potenziell nicht gefährlich.

Diese können sich aber, falls sie in der Umwelt gelangen, negativ auf diese auswirken.

Lesen Sie daher vor dem ersten Gebrauch des Produkts die Inbetriebnahme-, Bedienungs- und Entsorgungsanweisungen sorgfältig durch. Es wird empfohlen, dass Sie das Produkt nur für den vorgesehenen Zweck verwenden.

Bei unsachgemäßer Verwendung bzw. Fehlgebrauch besteht die Gefahr eines elektrischen Schlags.



Das Symbol der durchgestrichenen Mülltonne auf dem Etikett des Produkts weist auf die Konformität dieses Produkts zu den Vorschriften für Elektro- und Elektronik-Altgeräte hin. Das Ablagern in der Umwelt oder die illegale Entsorgung des Produkts ist strafbar.

#### Additional information

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

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Giacomini S.p.A. Via per Alzo, 39 - 28017 San Maurizio d'Opaglio (NO) Italy