

K495C



Radiant
Systems



Energy
Management

Thermostat with temperature and humidity probe, CANbus connection

Datasheet
1115EN 06/2023



Thermostat with temperature and humidity probe.
Back-lit LCD display with touch buttons.
For use with the KPM22 regulation unit through CANbus connection to control HVAC systems.
Installation on wall or on exposed or flush-mount Italian standard 3-module box.

Versions and product codes

PRODUCT CODE	POWER SUPPLY
K495CY002	12÷24 Vac / 12 Vdc

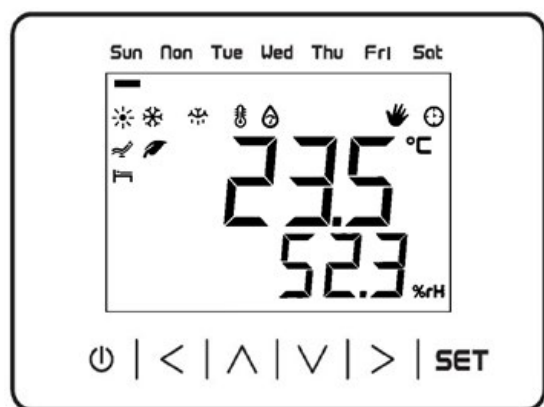
Completion codes

- KPM22: electronic regulation unit for HVAC systems

Technical data

- Power supply:
12÷24 Vac ($\pm 15\%$), 50÷60 Hz (± 3 Hz); max absorption 2 VA, not insulated
12 Vdc ($\pm 15\%$), max absorption 1 W, not insulated (independent power or supplied by a controller)
- Wall-mount installation (with anchor-screws and screws) or in the most common built-in boxes (with screws)
- Working temperature range: 0÷40 °C
- Working humidity range: 5÷95 % R.H. without condensation
- Temperature and relative humidity sensor: 0÷40 °C, 10÷70 %
- Protection class: IP30
- Display: 2-line LCD with function icons
- Dimensions: 112 x 77 x 19 mm

➤ User interface



Buttons

BUTTON	DESCRIPTION
	ON / Stand-by "2 s."
	Left / Right
	Up / Down
SET	Set

Display icons

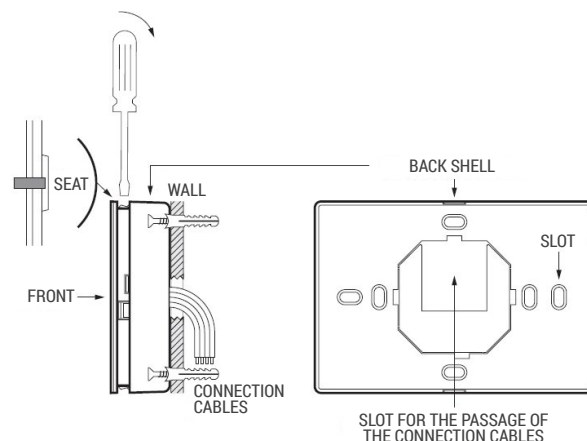
ICON	DESCRIPTION
	Summer
	Winter
	Antifreeze OFF
	Temperature request
	Dehumidification request
	Manual
	Chrono
	Comfort
	Night
	Economy

➤ Installation

⚠ WARNING. Installation and maintenance should be carried out by a professional operator with power Off.

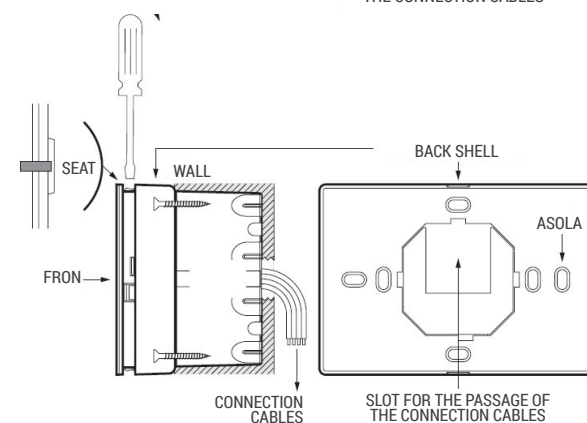
Wall-mount installation

- 1) Remove the back shell from the front of the device prying it off the housing with a screwdriver.
- 2) Place the back shell on the wall at a level suitable to drive the connection wires through the opening.
- 3) Use the slots in the back shell to drill 4 holes with a diameter fit for the type of anchor-screw used.
For an ideal installation, use 5-mm anchor-screws.
- 4) Insert the anchor-screws in the holes on the wall.
- 5) Fix the back shell to the wall using the 4 screws.
- 6) Wire the device with power off.
- 7) Fix the front of the device to the back shell.



Installation on flush-mount box

- 1) Remove the back shell from the front of the device prying it off the housing with a screwdriver.
- 2) Fix the back shell to the box using 4 screws.
For an ideal installation, use countersunk head screws.
- 3) Wire the device with the power off.
- 4) Fix the front of the device to the back shell.



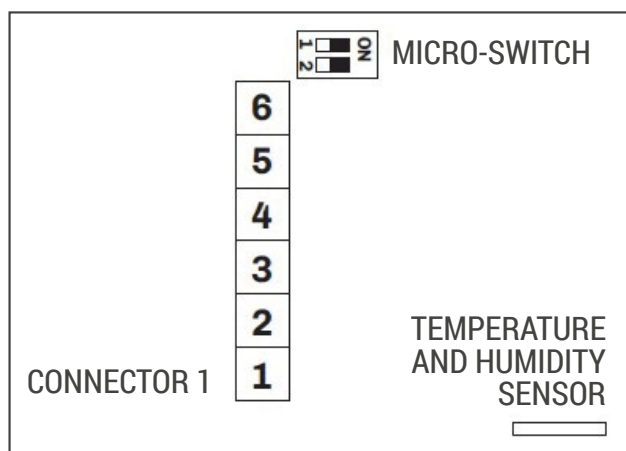
➤ Electric connections

⚠ WARNING. Use shielded wires featuring a section suitable for the type of power (min section 4 x 0,5 mm²).

To prevent electromagnetic interferences, insert the power wires in separated sleeves and place them as far as possible from the signal wires.

Wire the device to the CAN network with an "in-out" pattern. The connection length should not exceed 250 m.

Connectors



Micro-switch

NUMBER	DESCRIPTION
1	Reserved to constructor
2	To complete the CAN network

Completing the CAN network

To complete the CAN network:

1) Move micro-switch 2 to ON

2) Leave micro switch 1 OFF

The micro-switch is on the back of the device (first remove the back shell from the front).

⚠ WARNING. Enable on last Bus-line device only

Connector 1

NUMBER	DESCRIPTION
1	Reference - CAN port
2	Reference + CAN port
3	Device power supply (12-24 Vac/dc). Connect the negative terminal when powering the device with direct current
4	Device power supply (12-24 Vac/dc). Connect the positive terminal when powering the device with direct current
5	AI4 analogic/digital input (NTC/ID) not used
6	Reference for AI4 analogic/digital input (GND/ID) not used

▶ Reference standards

- EMC 2014/30/EU
- RoHS 2011/65/EU
- WEE 2012/19/EU
- REACH (CE) N° 1907/2006
- Classification of temperature control devices according to Reg.(EU) N.811/2013-813/2013: energy class IV, 2%.



▶ Product specifications

K495C

Thermostat with temperature and humidity probe with back-lit LCD display and touch buttons. For use with KPM22 regulation unit through CANbus connection to control HVAC systems. Installation on wall or on exposed or flush-mount Italian standard 3-module box. White. Communication protocol: CANbus. Power supply: 12÷24 Vac, 50÷60 Hz; max absorption 2 VA, not insulated or 12 Vdc, max absorption 1 W, not insulated (independent power or supplied by a controller). Working temperature range: 0÷40 °C. Working humidity range: 5÷95 % R.H. without condensation. Temperature and relative humidity probe: 0÷40 °C, 10÷70 %. Protection class: IP30. Dimensions: 112 x 77 x 19 mm. CE Certification.

⚠ Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

♻ Package Disposal. Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

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♻ Product Disposal. Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.