Tuo Bianco

VE771600

Smart thermostats / Climate Control



230 Vac wall-mounted electronic touch-screen smart thermostat with weekly programming. The keyboard features four touch keys, positioned on either side of the display. The colour of the display backlight can be customised by the user. Device designed for room temperature regulation in heating mode (winter) and cooling mode (summer). "Summer radiant safety", active in air-conditioning mode, switches off the relay when the menu-set relative humidity threshold is exceeded.

General features

- Plastic base for wall-mounted installation or for covering a 3-module flush-mounted box
- Display showing measured temperature and humidity as well as set programming
- Backlit touch keys on the sides of the display
- Terminal block on the back of the device for connecting load and power supply
- Automatic weekly programming with 3 temperature levels (T1, T2, T3)
- Temperature control: on/off (with adjustable differential) or proportional
- Anti-freeze temperature to prevent system freezing when the device is in OFF state
- Configurable display backlighting:
  - Always off
  - Always on (colour chosen from 48 shades or variable between red, green, and blue depending on difference between measured and set temperature)
  - On with daily timing by selecting ON and OFF times
- "Summer radiant safety" function: switches off the air conditioning if the measured humidity exceeds a set threshold (preset 63% RH)
- Timing function: Maintains the current operating mode (automatic, manual, or off) for a set period of time, after which the device automatically switches to the specified mode.
- Delay function (configurable for each hour): adjusts the temperature for the first 15, 30, or 45 minutes of the current hour according to the temperature level set for the previous hour
- Possibility to reduce the range of settable temperatures (factory preset 2 ÷ 50 °C)
- Automatic changeover between standard time and daylight saving time
- Keypad lock function with password to prevent modifications by unauthorised people
- Classification according to point 6 of European Commission Communication 2014/C 207/02: class IV

Technical specifications

Power supply	
Power supply	230 Vac (-15% ÷ +15%)
Frequency	50 / 60 Hz
Power reserve	12 hours
Temperature settings	
Settable temperatures	3 + antifreeze + manual
Temperature setting range Manual	2 ÷ 50 °C
Temperature setting range Automatic	2 ÷ 50 °C
Temperature setting range Antifreeze (Off)	OFF, 1 ÷ 50 °C

Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.

Revision date: 2026-02-02

Parameter settings	
Type of adjustment	ON-OFF or proportional
Differential/Hysteresis	0.1 ÷ 1 °C
Modes of operation	Summer Winter
Programming	Weekly
Programming resolution	1 hour
Settings	
Humidity alarm setting range	55% ÷ 70% RH
Measure	
Temperature measuring range	0 ÷ 50 °C
Humidity measuring range	20% ÷ 90% non condensante RH
Temperature display resolution	0.1 °C
Humidity display resolution	0,1% RH
Temperature measurement accuracy	± 0.5 °C
Humidity measurement accuracy	5% RH
Functions	
Measured humidity value displaying	✓
"Summer radiant safety" function	✓
Timing function	✓
Automatic daylight saving/standard time changeover	✓
Keypad lock function	✓
Delay function	✓
Operating conditions	
Operating temperature range	0 ÷ 50 °C
Relative humidity	20% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C
Approvals and certifications	
Classification according to point 6 of Communication 2014/C 207/02 of the European Commission:	Class IV
Viewing	
Display	Backlit LCD
Outputs	
Relay number	1
Relay type	Heat exchange
Relay capacity at 250 Vac	5 A
Mechanical features	
Protection degree	IP40

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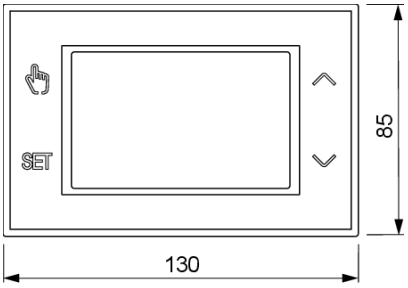
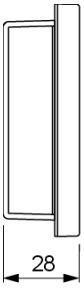
Physical features	
Color	White
Device command	Touch screen
Backlighting	✓
Backlight color	Multicolor
Overall dimensions	
Height (A)	85 mm
Width (B)	130 mm
Depth (C)	28 mm

Dimensions

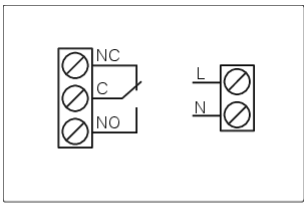
Front View



Side View



Wiring diagram



Product variants

Tuo Nero

VE771700

Weekly 230 Vac touch-screen wall-mounted smart thermostat with multi-colour backlit LCD display. Black colour

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Reference standards

Compliance with Community Directives:

• 2014/35/UE (LVD) • 2014/30/UE (EMCD) • 2011/65/UE e 2015/863/UE (ROHS)

is declared with reference to the following Standards:

• EN IEC 60730-2-7 • EN IEC 60730-2-9 • EN IEC 63000

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