Tuo GSM Nero

VE771900

Smart thermostats / Climate Control



230 Vac wall-mounted electronic touch-screen smart thermostat with GSM module, 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). The free app, available on App Store and Google Play, allows full programming and control from smartphone or tablet. Possible alarm situations are notified via SMS to a specified number

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
- Application for iOS and Android systems
- 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
  - Choice of 48 colours
  - Variable between red, green, and blue depending on the difference between measured and set temperature
- 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
- Phonebook with 5 storable numbers for remote device control via phone call or for receiving alarm SMS
- The smart thermostat can be switched on/off with a single phone ring
- By sending an SMS, you can set the operating mode (automatic, manual, or off), adjust control temperatures, and request the measured temperature or system status
- Rechargeable AAA NiMH backup battery
- Possibility of reducing the settable temperature range (factory setting: 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% ÷ +10%)
Frequency	50 / 60 Hz
Buffer battery type	AAA NiMH 1.2 V (Rechargeable)
Temperature settings	
Settable temperatures	3 + antifreeze + manual
Temperature setting range Manual	2 ÷ 50 °C

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Revision date: 2026-02-02

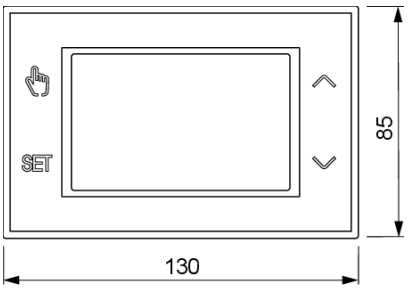
Temperature settings	
Temperature setting range Automatic	2 ÷ 50 °C
Temperature setting range Antifreeze (Off)	OFF, 1 ÷ 50 °C
Parameter settings	
Type of adjustment	ON-OFF or proportional
Differential/Hysteresis	0.1 ÷ 1 °C
Modes of operation	Summer Winter
Programming	Weekly
Programming resolution	1 hour
Measure	
Temperature measuring range	0 ÷ 50 °C
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	✓
Timing function	✓
Automatic daylight saving/standard time changeover	✓
Keypad lock function	✓
Delay function	✓
Manageable by application	✓
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
Terminations	
Maximum cable cross-section	1.5 mm²

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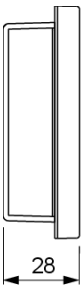
Mechanical features	
Protection degree	IP40
Physical features	
Color	Black
Device command	Touch screen
Backlighting	✓
Backlight color	Multicolor
Overall dimensions	
Height (A)	85 mm
Width (B)	130 mm
Depth (C)	28 mm

Dimensions

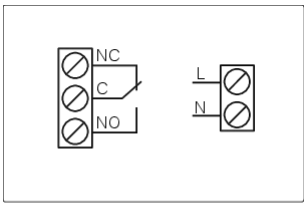
Front View



Side View



Wiring diagram



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Remote control

Fully manageable via smartphone and tablet app

Clima GSM

Clima GSM is the smart application designed to manage Vemer smart thermostats with GSM module via a direct SMS system, also remotely. It allows flexible control of heating and air-conditioning device functions.

Reference standards

Compliance with Community Directives:

• 2014/53/UE (RED) • 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 • ETSI EN 301 489-1 • ETSI EN 301 489-52 • ETSI EN 301 511 • EN 18031-1 • EN IEC 63000

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