# Digital chronothermostats
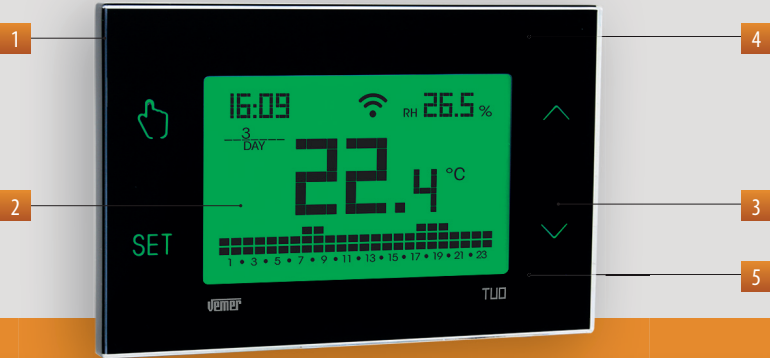
## TUO WI-FI
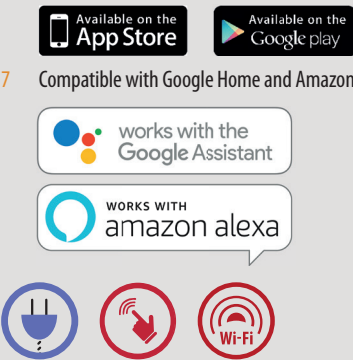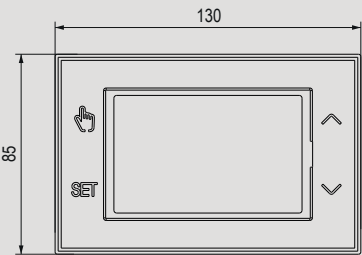
Touch screen electronic chronothermostats with Wi-Fi connection, weekly programming and wall installation, designed to control the ambient temperature both in heating mode (winter) and in cooling mode (summer). The free app, available on the AppStore and Google Play, allows the programming and the complete control from your smartphone or tablet. Any alarm situations are signaled by sending an email to the specified address. The keypad consists of four touch keys placed on the sides of the display. The colour of the display backlighting can be customized by the user (in the Lite version, only blue backlit).
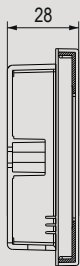
1 Plastic base for wall-mounting or to cover the 3 modules flush-mounting box
2 Wide backlit display to view the measured temperature and humidity and the set programming (displayed humidity not available in the Lite version)
3 Backlit touch keys on the sides of the display
4 Terminals on the back of the device for connecting the load and the power supply
5 Integrated Wi-Fi module compatible with 802.11 b/g/n standard
6 Free app available for iOS and Android systems

Available on the **App Store**
Available on **Google play**

7 Compatible with Google Home and Amazon Echo

works with the **Google Assistant**
WORKS WITH **amazon alexa**

## DIMENSIONS (mm)

**Front view**

130
85

**Side view**

28

## WIRING DIAGRAM

**Diagram**



## CLIMATE CONTROL

## TECHNICAL INFORMATION
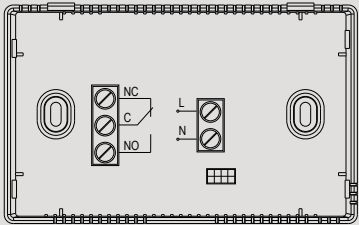
## WEEKLY WALL-MOUNTING WI-FI CHRONOTHERMOSTATS

- Automatic programming on a weekly basis with 3 temperature levels T1, T2, T3
- On/off temperature regulation type (with adjustable differential) or proportional
- Antifreeze temperature to prevent system freezing when the device is switched off
- Configurable backlighting display: always off, of a colour chosen among 48 possible shades or variable between red, green and blue based on the difference between the measured temperature and the set one (in the Lite version only blue backlit)
- Display of the measured humidity value (not available in the Lite version)
- Timing function: allows you to extend the current operation for the specifed period (hours or days), after which the device changes operation from automatic to off , from manual to automatic, from off to on (manual or automatic)
- Delay function (settable for each hour independently): allows to adjust the temperature for the first 15, 30 or 45 minutes of the current time on the basis of the temperature level set for the previous hour
- "Local operation block" function: allows the device control only with the app (keypad changes are ignored)
- Possibility to reduce the settable temperature range (factory 2÷50°C)
- Automatic summer time change and automatic synchronization when connected to the electricity network
- Keypad lock with password to prevent changes by unauthorized persons
- Classification according to point 6 of the Communication 2014 /C 207/02 of the European Commission: class IV

### What allows you to do the App?

- switch on and switch off the air conditioning system
- create and modify weekly programs
- change the operating temperatures values
- simplify programming through copy-paste of one program on several days
- set holiday days when the system is off

### TUO-Wi-Fi alerts you when...

⚠ **ALARM** ... the measured temperature exceeds a minimum or maximum set value

## GENERAL CHARACTERISTICS

| Power supply | V AC | 230 (-10% ÷ +10%) |
|---|---|---|
| Frequency | Hz | 50/60 |
| Mounting | | Wall /Box 503 |
| Programming | | Weekly |
| Operating mode | | summer/winter |
| Settable temperatures | | 3 + antifreeze + manual |
| Temperature regulation range | | |
| | Automatic °C | 2 ÷ 50 |
| | Manual °C | 2 ÷ 50 |
| | Antifreeze °C | OFF, 1 ÷ 50 |
| Relay capacity 250 V AC | A | 5 |
| Temperature measurement range | °C | 0 ÷ 50 |
| Measurement precision | °C | 0.5 |
| Temperature resolution | °C | 0.1 |
| Programming resolution | h | 1 |
| Gap between two temperature measurements | s | 20 |

| Regulation type | | ON-OFF or proportional |
|---|---|---|
| Adjustable differential (in OFF-ON) | °C | 0.1 ÷ 1 |
| Displayed humidity (not present in Lite version) | | |
| | Range RH | +20÷ +90% |
| | Resolution RH | 0.1% |
| | Precision RH | 5% |
| Protection degree | IP | XXD |
| Operating temperature | °C | 0 ÷ 50 |
| Storage temperature | °C | –20 ÷ 65 |
| Relative humidity | RH | 20% ÷ 90% non condensing |

App — Internet network — access point — Tuo Wi-Fi

## REFERENCE STANDARDS

Compliance with Community Directives: 2014/53/EU (RED) is declared with reference to the following standards: • EN 60730-2-7 • EN 60730-2-9 • ETSI EN 300 328 • ETSI EN 301 489-1 • ETSI EN 301 489-17

| Code | Model | Description | Colour | Power supply |
|---|---|---|---|---|
| VE772000 | Tuo Wi-Fi Bianco | Touch screen weekly chronothermostat with multicolour backlit LCD and with WI-FI | White | 230 V~ |
| VE772100 | Tuo Wi-Fi Nero | Touch screen weekly chronothermostat with multicolour backlit LCD and with WI-FI | Black | 230 V~ |
| VE785700 | Tuo Wi-Fi Lite Bianco | Touch screen weekly chronothermostat with blue backlit LCD and with WI-FI | White | 230 V~ |
| VE793800 | Tuo Wi-Fi Lite Nero | Touch screen weekly chronothermostat with blue backlit LCD and with WI-FI | Black | 230 V~ |

**VEMER**

**VEMER**