# Chronos Nero

VE452900

**Smart thermostats** / Climate Control




Battery-operated wall-mounted electronic touch-screen smart thermostat with backlit display and weekly programming. Device designed for room temperature regulation in heating mode (winter) and cooling mode (summer). The keyboard consists of four icons on the bottom of the touch screen display.

## General features

- Plastic base for wall-mounted installation or for covering a 3-module flush-mounted box
- Display showing measured temperature and set programming
- Touch screen keypad
- Terminal block on the back of the device for connecting load and external contact/remote temperature probe
- 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
- Blue display backlighting that can be activated when keys are pressed
- 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
- Automatic changeover between standard time and daylight saving time
- Keypad lock function with password to prevent modifications by unauthorised people
- Configurable digital input for connecting an external contact to switch off the device, or an X.temp temperature probe (code VN883500)
- Classification according to point 6 of European Commission Communication 2014/C 207/02: class IV

## Technical specifications

| | |
|---|---|
| **Power supply** | |
| Power supply | 2 batteries (AAA)<br>1.5 V<br>Alkaline<br>NOT rechargeable |
| Battery autonomy | 12 months |
| Power reserve | 1 minute |
| **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 |
| **Parameter settings** | |
| Type of adjustment | ON-OFF or proportional |

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Revision date: 2026-02-02

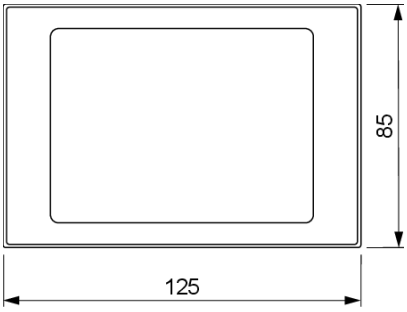
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|---|---|
| **Parameter settings** | |
| Differential/Hysteresis | 0.1 ÷ 1 °C |
| Modes of operation | Summer<br>Winter |
| Programming | Weekly |
| Programming resolution | 1 hour |
| **Measure** | |
| Temperature measuring range | 0 ÷ 50 °C |
| Temperature display resolution | 0.1 °C |
| Temperature measurement accuracy | 0.5 °C |
| **Functions** | |
| 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 |
| **Inputs** | |
| Digital input | ✓ |
| No. digital inputs | 1 |
| Auxiliary input features | Configurable |
| **Outputs** | |
| Relay number | 1 |
| Relay type | Heat exchange |
| Relay capacity at 250 Vac | 5 A |
| **Terminations** | |
| Maximum cable cross-section | 1.5 mm² |
| **Mechanical features** | |
| Protection degree | IP40 |
| **Physical features** | |
| Color | Black |


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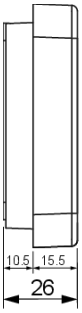
| | |
|---|---|
| **Physical features** | |
| Device command | Touch screen |
| Backlighting | ✓ |
| Backlight color | Blue |
| **Overall dimensions** | |
| Height (A) | 85 mm |
| Width (B) | 125 mm |
| Depth (C) | 26 mm |

## Dimensions

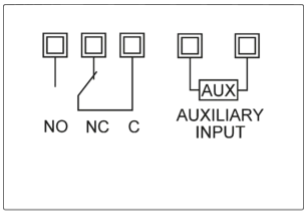
Front View




Side View




## Wiring diagram




Configurable auxiliary input:

- for external probe
- for external contact (with external contact closed, smart thermostat off)

## Product variants

**Chronos Bianco**

VE451100

Battery-operated weekly touch-screen wall-mounted smart thermostat with backlit display. White 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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