

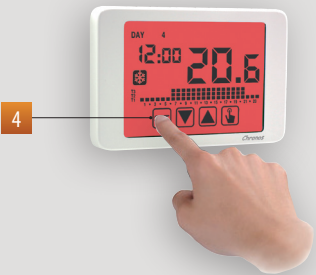
# Digital programmable thermostats

CHRONOS

Series of touch screen electronic programmable thermostats with weekly programming and wall-mounting designed for temperature control both in heating and cooling.  
Available in white and black colours with AC power supply or battery.

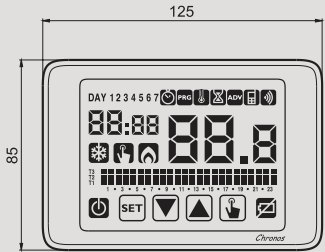


- 1 Plastic base for wall-mounting or to cover the in-built three modules box
- 2 Wide backlit touch screen display to view the status of operating , time and day and measured temperature
- 3 Terminals in the back of the instrument for connection to the relay output, power supply (230V models only) and external contact (battery models only)
- 4 Touch screen keyboard for the instrument programming

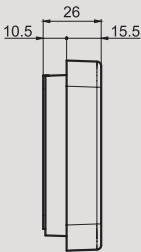


## DIMENSIONS (mm)

### Front view

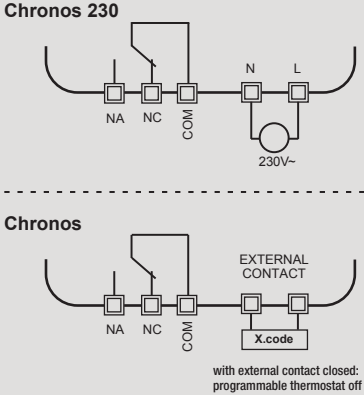


### Side view



## CONNECTION DIAGRAM

### Diagram



# CLIMATE CONTROL

## TECHNICAL INFORMATION

### WALL-MOUNTING TOUCH SCREEN PROGRAMMABLE THERMOSTATS

- Summer/winter regulation mode
- Automatic programming with:
  - 7 programs for winter mode (modifiable)
  - 7 programs for summer mode (modifiable)
- Temperature regulation of ON/OFF type or proportional
- 5 settable temperatures:
  - T1, T2, T3 in automatic operation
  - Tm in manual operation
  - Toff in off mode (antifreeze temperature, removable)
- Minimum interval of regulation: 1 hour
- Switching delay settable among 15, 30 or 45 minutes (independent for each hour)
- Monostable relay output 5A / 250 Vac
- Password protected lock keypad
- Automatic summer/winter time change

#### Chronos 230

- Power supply: 230Vac 50/60Hz
- Charge reserve (in case of black-out): 2 days about
- Display with multicolour backlighting red, green, blue changeable according to the difference between the measured temperature and the programmed setpoint



#### Chronos

- Power supply: 2x1.5V (AAA type)
- Charge reserve (for battery replacement): 1 minute
- Display with blue backlighting (activation after a key pressure)
- Digital input for clean contact with whom to switch on / to switch off the programmable thermostat remotely by telephone (see accessories X.code Wave, X. code BUS)



| Code     | Model              | Description  | Colour | Power supply |
|----------|--------------------|--|--------|--------------|
| VE453700 | Chronos 230 Bianco | Touch screen weekly programmable thermostat with multicolour display | White  | 230 V~       |
| VE454500 | Chronos 230 Nero   | Touch screen weekly programmable thermostat with multicolour display | Black  | 230 V~       |
| VE451100 | Chronos Bianco     | Touch screen weekly programmable thermostat with backlit display     | White  | Batteries    |
| VE452900 | Chronos Nero       | Touch screen weekly programmable thermostat with backlit display     | Black  | Batteries    |

### GENERAL CHARACTERISTICS

|                                    |                         |           |                            |
|------------------------------------|-------------------------|-----------|----------------------------|
| Power supply                       | Chronos 230             | V AC      | 230 (-15% ÷ +10%) 50/60 Hz |
|                                    | Chronos                 | Batteries | 2 x 1.5V (AAA type)        |
| Mounting                           | wall                    |           |                            |
| Maximum cable section              | mm²                     |           |                            |
| Programming                        | weekly                  |           |                            |
| Operating mode                     | summer/winter/off       |           |                            |
| Regulation type                    | ON/OFF or proportional  |           |                            |
| Differential                       | °C                      |           |                            |
| Settable temperatures              | 3 + manual + antifreeze |           |                            |
| Setpoint range                     | °C                      |           |                            |
| Measurement temperature resolution | °C                      |           |                            |
| Measurement precision              | °C                      |           |                            |
| Antifreeze temperature (removable) | °C                      |           |                            |

|                              |                                    |
|------------------------------|------------------------------------|
| Programming resolution       | 1 hour                             |
| Switch on delay              | 15, 30 or 45 minutes               |
| Output relay capacity        | 5A / 250 V (monostable)            |
| Clock precision              | ± 1 s/day                          |
| Digital input (Chronos only) | for instrument switch off remotely |
| Operating temperature        | °C                                 |
| Storage temperature          | °C                                 |
| Operating humidity           | RH                                 |
| Protection degree            | IP40                               |

### REFERENCE STANDARDS

Compliance with Community Directives: 2006/95/EC (Low Voltage) and 2004/108/EC (E.M.C.) is declared with reference to the following standards: • EN 60730-2-7 • EN 60730-2-9