



## PROGRAMMABLE ROOM THERMOSTAT, TOUCH SCREEN WHITE BACKLIGHTING

Wired management of commands for controlling a heating or air conditioning system

### Overview

#### Main features

- Regulation of the room temperature
- Programming of a heating or cooling system
- Automatic management of 7 pre-set weekly and daily programmes, which can be customised and which are separate
- The operating mode can be set manually
- Switching between heating and air conditioning

#### Application

- Wall mounted boiler or placed on the ground
- Reversible Heat pump

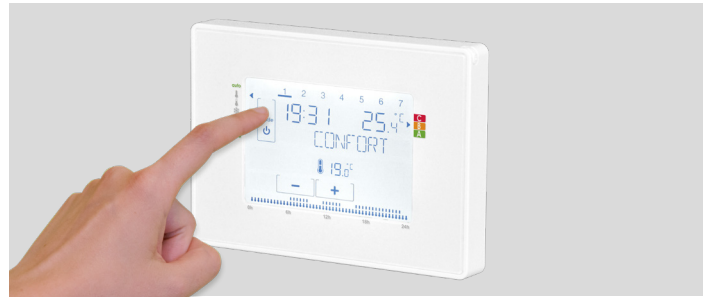
#### Product + points

- **Contemporary design**, extra flat
- **A large display**: white backlit LCD for a better readability
- **Ergonomic settings**: touch screen with quick access to fonctions
- **Delivered with a stylus**: specially designed to maximize orders accuracy
- **Energy consumption gauge**: Automatic indication of the level of energy consumption depending on the temperature setpoint
- **Window-opening and window-closing detector feature**: automatic activation of Frost-protection mode when a significant temperature change is detected

## Functional specifications



| Use  |   |
|--|---|
| Temperature setting range                          | Adjustable from +5°C to +30°C   |
| Operating mode                                     | Auto, Comfort, Eco (Economy), Frost protection, Heating on standby ; when heating or cooling  |
| Holiday Mode                                       | Your home will be protected against freezing during a settable period from 01 to 99 days  |
| Energy consumption gauge                           | Automatic indication of the level of energy consumption depending on the temperature setpoint, in relation to ADEME's recommendations   |
| Programming  | <ul style="list-style-type: none"> <li>- 1 pre-registered daily program for each day of the week, independent and modifiable. Every half hour can be set in "Comfort mode" or "Eco mode"</li> <li>- Simplified programming principle : day by day or by group of day using "copy and paste"</li> <li>- Temporary change of the set programmed temperature</li> </ul>  |
| Window-opening and window-closing detector feature | <p>Manual or automatic activation of the set-time and resettable lower set temperature cycle, temporized and adjustable, when a significant temperature change is detected.</p> <p>Reversion to the initial operating mode takes place manually, or automatically when a significant increase in temperature is detected</p>  |
| Special Reversible Heat pump                       | The heating mode or air conditioning mode is selected by pressing the heating/air conditioning switch-over button which is visible on the interface   |
| Optimizing a heating system with high inertia      | Automatic anticipation of the increases or decreases in temperature required at the time of programmed switchovers to the Comfort Mode temperature and to the Eco (economy) Mode temperature  |
| Safety   | <ul style="list-style-type: none"> <li>- <b>Child safety</b>: keypad locking</li> <li>- <b>Settings safety</b>:                             <ul style="list-style-type: none"> <li>- Restricted settings in respect of a temperature setpoint (Stumbled min. &amp; max.)</li> <li>- Locking using a PIN number (prevents access to advanced and expert settings)</li> </ul> </li> <li>- <b>Settings are saved by means of EEPROM in the event of a power supply voltage outage.</b></li> <li>- <b>Safety anti-lock fonction of circulation pump</b></li> <li>- <b>Anti frost remote activation</b> : thermostat includes a dedicated input for heating control by phone (an additional dedicated device is needed)</li> </ul> |



## Installation

**2 mounting options:** on a junction box or salient

Easy wiring, by 2 wires only, the power supply is assured by LR6 batteries

**Adapts to the installation** through its output contact:

- From inverter type, potential free
- Configurable to be switched, either normally open (NO by default) or normally closed (NC)
- Testable, a "test" menu to force the state of output contact: "On" or "Off"

## Advanced settings

|  |  |
|--|--|
| <b>Language</b>  | English or French  |
| <b>Temperature unit</b>  | Celsius or Fahrenheit degree                                     |
| <b>Max. setpoint temperature</b>   | <b>Preset to +30°C</b> , adjustable from +5°C to +30°C           |
| <b>Min. setpoint temperature</b>   | <b>Preset to +5°C</b> , adjustable from +5°C to +30°C            |
| <b>Eco temperature</b>   | <b>Preset to -2°C</b> , adjustable from -1°C to -8°C             |
| <b>Frost protection temperature</b>  | Preset to +7°C, adjustable from +5°C to +15°C                    |
| <b>Window-opening and window-closing detection</b>                                       | Enabled by default, can be disabled                              |
| <b>Duration of Frost protection Mode on period following detection of window opening</b> | <b>Preset to 2 hours</b> , adjustable from 30 minutes to 2 hours |

## Expert settings

|                                   |  |
|-----------------------------------|--|
| <b>PIN code locking</b>           | Initialization - Customization - Activation and deactivation |
| <b>Temperature adjustment</b>     | Displayed temperature calibration                            |
| <b>Backlighting</b>               | Temporised when pressing or disabled                         |
| <b>Restoring factory settings</b> | Of most frequently used parameters or of all parameters      |

## Technical specifications

### Dimensional and finish specifications

|               |                |
|---------------|----------------|
| <b>Height</b> | 94 mm          |
| <b>Width</b>  | 132 mm         |
| <b>Depth</b>  | 22 mm          |
| <b>Color</b>  | White RAL 9016 |

### Power supply

|                                       |   |
|---------------------------------------|---|
| <b>2 1.5V LR06 alkaline batteries</b> | Battery life approximately 1 years  |
| <b>Relay output</b>                   | One $\mu$ 5 (2) A 230V ~ potential-free double-throw switch, 100,000 cycles using an AC1-type load (resistive load) |
| <b>Relay output connection</b>        | Using a screw terminal suitable for a wire with a 1 to 1.5 square mm cross-sectional area (wire gauge)              |

### Control

|                     |                           |
|---------------------|---------------------------|
| <b>Control type</b> | PID ou ON/OFF, adjustable |
|---------------------|---------------------------|

### Environment

|  |   |
|--|---|
| <b>Protection rating</b>                     | IP20  |
| <b>Class</b>                                 | Class III   |
| <b>Control class and energy contribution</b> | IV according ERP/2009/125/EC and associated regulations |
| <b>Operating temperature</b>                 | 0°C to +40°C  |
| <b>Setpoint temperature setting</b>          | +5°C to +30°C   |
| <b>Storage temperature</b>                   | -10°C to +60°C  |
| <b>Humidity level</b>                        | 85% at +25°C (without condensation)                     |

## Applicable directives

|             |  |
|-------------|--|
| <b>EMC</b>  | 2014/30/EU   |
| <b>LVD</b>  | 2014/35/EU   |
| <b>RoHS</b> | 2011/65/EU, amended by Directives 2015/863/EU and 2017/2102/EU |
| <b>DEEE</b> | 2012/19/EU   |

## Applicable standards

|                      |                                   |
|----------------------|-----------------------------------|
| <b>EMC</b>           | EN60730-1 ; EN60730-2-9           |
| <b>LVD</b>           | EN60730-1 ; EN60730-2-9 ; EN62311 |
| <b>RoHS</b>          | EN IEC 6300                       |
| <b>Manufacturing</b> | On certified site ISO 9001 V2015  |

## Product codes

### Codes

|                  |  |
|------------------|--|
| <b>NCTREIMHA</b> | Programmable wired room thermostat with touch screen |
|------------------|--|

### References

**Product customization (design features) possible. Please contact us.**