NCTRE

PROGRAMMABLE ROOM THERMOSTAT, TOUCH SCREEN WHITE BACKLIGHTING

Wired management of commands for controling 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 pro-grammes, 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 backlighted LCD for a better readability
- **Ergonomic settings:** touch screen with quick access to fonctions
- D**elivered 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	- 1 pre-registred daily program for each day of the week, independent and modifiable. Every half hour can be set in "Comfort mode" or "Eco mode" - Simplified programming principle : day by day or by group of day using "copy and paste" - Temporary change of the set programmed temperature
Window-opening and window-closing detector feature	Manual or automatic activation of the set-time and resettable lower set temperature cycle, temporized and adjustable, when a significant temperature change is detected. Reversion to the initial operating mode takes place manually, or automatically when a significant increase in temperature is detected
Special Reversible Heat pump	The heating mode or air conditioning mode is selected by pressing the heating/air conditioning swit-chover 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 program-med switchovers to the Comfort Mode temperature and to the Eco (economy) Mode temperature
Safety	- **Child safety:** keypad locking - **Settings safety:** - Restricted settings in respect of a temperature setpoint (Stumbled min. & max.) - Locking using a PIN number (prevents access to advanced and expert settings) - **Settings are saved by means of EEPROM in the event of a power supply voltage outage.** - **Safety anti-lock fonction of circulation pump** - **Anti frost remote activation :** thermostat includs a dedicated input for heating control by phone (an aditional dedicated device is needed)

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

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

Expert settings

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

Technical specifications

Dimensional and finish specifications

Height	94 mm
Width	132 mm
Depth	22 mm
Color	White RAL 9016

Power supply

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

Control

Control type	PID ou ON/OFF, adjustable

Environment

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

Applicable directives

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

Applicable standards

EMC	EN60730-1 ; EN60730-2-9
LVD	EN60730-1 ; EN60730-2-9 ; EN62311
RoHS	EN IEC 63000
Manufacturing	On certified site ISO 9001 V2015

Product codes

Codes	References
NCTREIMHA	Programmable wired room thermostat with touch screen

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

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