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RECESS SERIES ELECTRONIC THERMOSTATS MODULE - H 45 mm

Models with differential ON/OFF intervention and luminous charge inserted signal

1TITE301/MC - Electronic thermostat with input for external night reduction control

1TITE303/MC - Electronic thermostat with Winter-Off-Summer control and input for night reduction

Insallation and user intructions

Read this manual carefully before using the product as it provides important guidelines regarding safety, installation and use.
The manual must be preserved with care for future reference.

English

PE - DETIPE013EN 05/19

DISPOSAL OF OLD ELECTRICAL & ELECTRONIC EQUIPMENT

This symbol on the product or its packaging to indicates that this product shall not be treated as household waste.
Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment, such as for example:
- sales points, in case you buy a new and similar product
- local collection points (waste collection centre, local recycling center, etc...).

By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handing of this product.
The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your house hold waste disposal service or the shop where you purchased the product.

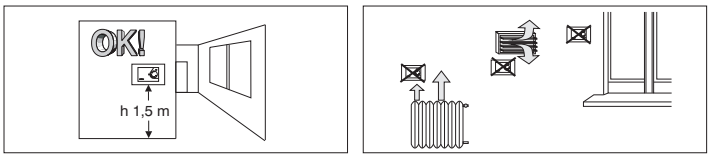
TECHNICAL DATA

Supply voltage:	230 V~ 50 ÷ 60 Hz
Type of action, disconnect and device:	1 / B / Electronic
Type of output:	relay with changeover contact NO / COM / NC voltage free - 8(2)A / 250 V~
Output connection (load):	2 or 3 conductors
Wire section at terminals:	min. 0,75 mm^2 - max. 2,5 mm^2
Insulation type:	Class II ⧈
Protection degree:	IP 30
Pollution:	normal
Temperature adjustment range:	from + 5 °C to + 30 °C (limitable)
ERP Energy classification:	ErP: Class I; 1% Reg. EU 811/2013
Thermal gradient:	max 1K/15 min.
Differential operation:	Δ T = 0,7 °C
Precision of reading	± 1 °C
Operating temperature limits:	0 °C ÷ + 50 °C
Reference standard for CE mark:	LVD EN60730-2-9 EMC EN60730-2-9

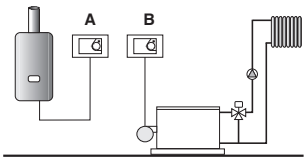
PERFORMANCE DATA

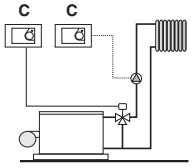
Night reduction control	remote
Night reduction temperature (referred to the set):	- 4 °C
Temperature set lock	mechanical with “range disc” (supplied)
Light signaling	LED showing charge inserted/disengaged

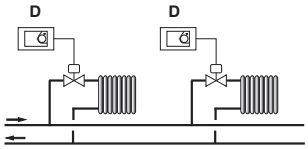
INSTALLATION EXAMPLES



Install the thermostat at a height of 1,5 m ÷ 1,7 m from the floor, far from heat sources, air vents, doors or windows and anything else that could affect its operation.





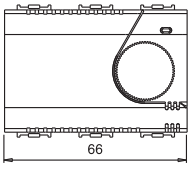


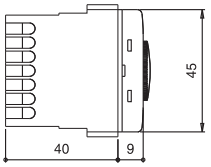
Examples of installation in heating systems with a thermostat that controls:

A) Wall mounted boiler
B) Burner
C) Circulation pump or Motorized solenoid valve
D) Area solenoid valve

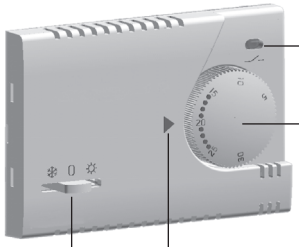
N.B.: the examples contained in this documentation are in principle.

DIMENSIONS





SIGNALS AND CONTROLS (according to model)



Load status LED:
alight = load ON

Temperature setting knob
5 °C ÷ 30 °C

Reference index for temperature setting

Selector for controlling work mode (only for 1TITE303/MC)
☼ - **0** - ☼ (Winter - OFF - Summer)

⚠ SAFETY PRECAUTIONS ⚠

Important: the installation and electrical connection of the devices and appliances must be implemented by person with electrotechnical expertise only and in conformity with current laws and regulations. The manufacturer declines any liability for the use of products subject to special environmental and/or installation standards.

Attention: before starting any operations on the device, disconnect the 230V~ mains power supply

- **This appliance must be intended only for the use for which it was built. Any other use must be considered improper and dangerous.**
- **The programmable thermostat is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or by those with a lack of experience and knowledge of the instructions, unless they are supervised or have received the necessary instructions concerning use of the device by a person responsible for their safety.**
- **Children should be supervised to ensure that they do not play with the device.**

COMPATIBILITY TO THE MOST COMMON RESIDENTIAL SERIES PLATES

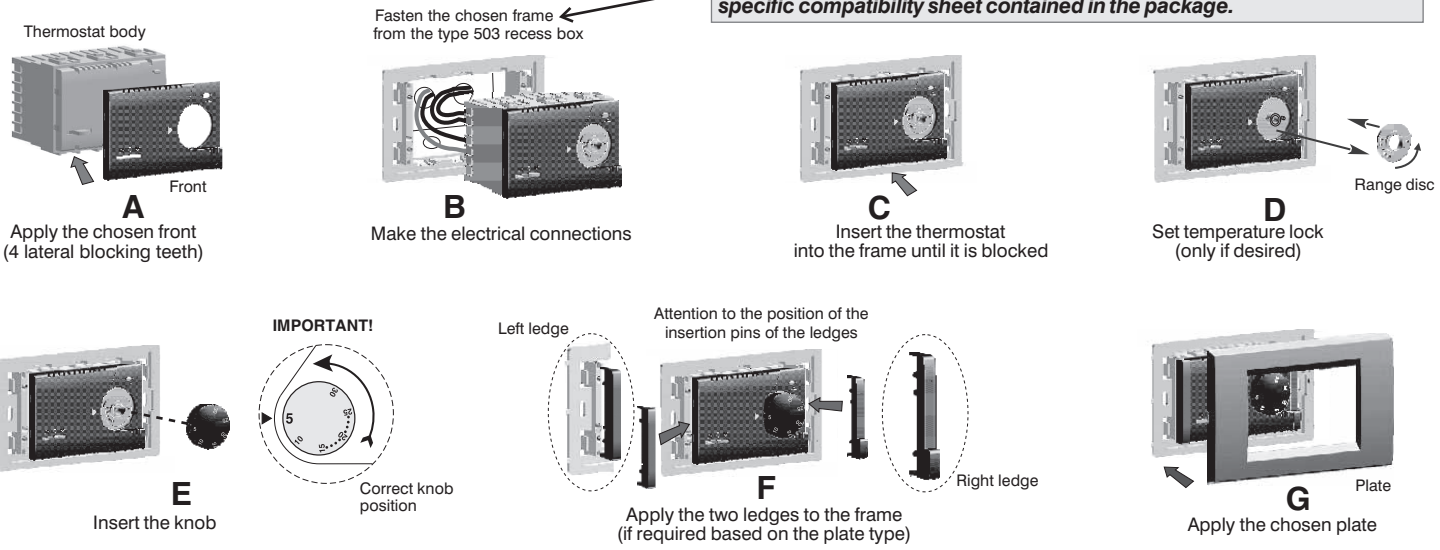
IMPORTANT: for the assembly procedure of the thermostat with the chosen residential plate, follow instructions contained in the specific compatibility sheet contained in the package.

1 - INSTALLATION EXAMPLE

Make sure to remove the 230V mains supply before proceeding with the installation

COMPATIBILITY TO THE MOST COMMON RESIDENTIAL SERIES PLATES

IMPORTANT: for the assembly procedure of the thermostat with the chosen residential plate, also follow instructions contained in the specific compatibility sheet contained in the package.



2 - LIMITATION OF THE MAXIMUM ROOM TEMPERATURE

It is possible to preset from 16 °C to 24 °C, with 2 °C step, the maximum temperature value.
NB: the thermostat is supplied with the "range disc" preinstalled with pin in the neutral hole (no temperature limitation).

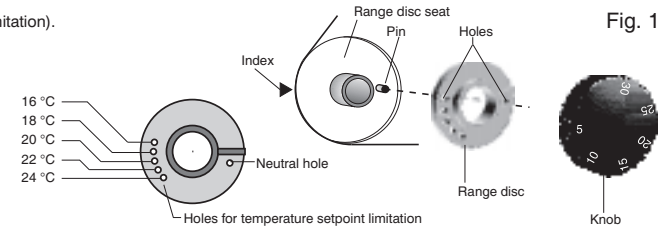


Fig. 1

Temperature limit setting or its subsequent modification

a Rotate the knob anti-clockwise and pull it out.

b) Take out the "temperature range" disc and reinsert it by locating the maximum desired temperature hole over the pin placed on thermostat (Fig.1).

c) Reinsert the knob and verify at the end of the anti-clockwise limit corresponding to 5°C with index, if different, re-insert the knob rotated by 180°.

3 - ELECTRICAL CONNECTIONS

Thermostat with inputs for controlling night temperature reduction, external (example time switch)

Switch mains supply off

Connect 230V ~ power supply to the terminals: n° **4** (Line) and n° **5** (Neutral).

Connect the wires of the device to be controlled to the terminals: n° **1** = common
n° **2** = normally open
n° **3** = normally closed

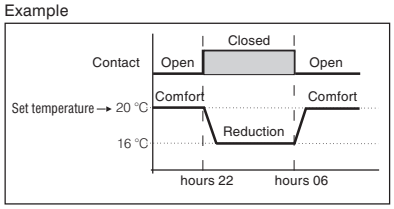
IMPORTANT: for heavy inductive loads (pumps and solenoid valves) it is advisable to connect an RC filter in parallel with the load.

Remote selection of "Comfort" or "Reduction" temperature

If you want to use remote control of "Comfort" or "Reduction" temperature, connect the exterior contact to the terminals: n° **6** and n° **7** of the thermostat (fig. 3 e fig. 4).

ATTENTION: the connections to the external reduction selection contacts are network potential.

Example



"Comfort" Temperature = external contact open
"Reduction" Temperature = external contact closed

Selecting "Reduction" temperature determines a decrease of 4 °C with respect to the set temperature value.

Fig. 2

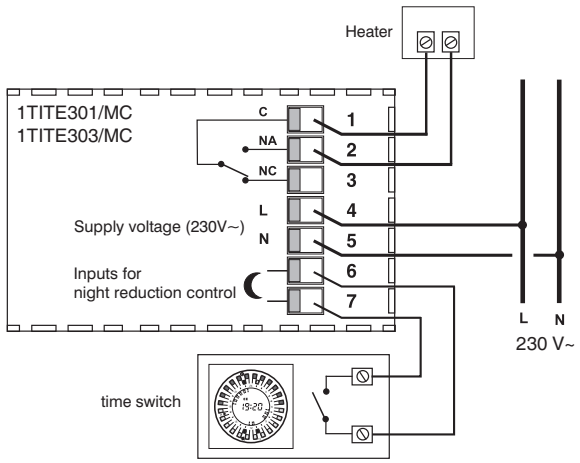


Fig. 3 - *Example of connection to boiler and clock for night reduction control*

Multiple installations

Besides all that has been mentioned above, in multiple installations (for example offices, schools, houses, etc.) operated only by one clock for the centralized night reduction, it is necessary to follow carefully the indications below (fig. 4).

For all thermostats

1) Supply voltage (230V~)
Terminal n° **4**: connect the Line of network (230 V~)
Terminal n° **5**: connect the Neutral of network (return)

N.B.: normally residential power supply used the unified colours "brown" for the phase, "blue" for neutral (line return).

2) Connections for night reduction control
All terminals n°. **6**: connect in parallel with output **2** of the time switch.
All terminals n°. **7**: connect in parallel with output **1** of the time switch.

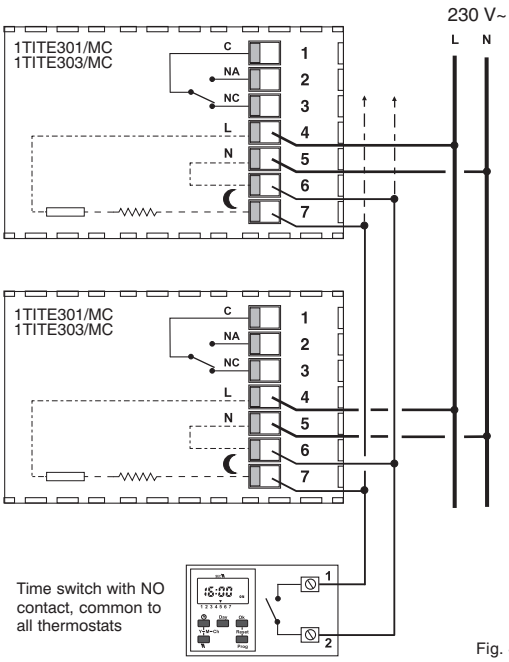


Fig. 4

The manufacturer reserves the right to introduce any technical and/or constructive changes deemed necessary, with no prior notice.