



SAFETY PRECAUTIONS



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



Before starting any operations on the device, disconnect the 230V~ mains power supply

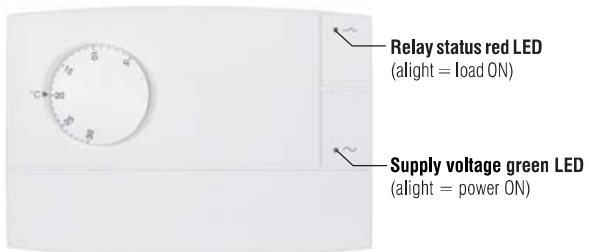
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TECHNICAL DATA

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 - max 8(2)A / 250 V~ 2 or 3 conductors
Output connection (load):	for voltage free contact (models where provided for)
Inputs for "Reduction" control, remote:	supply voltage = 2,5 mm ²
Maximum wire section at terminals:	relay contact = 2,5 mm ² reduction remote = 1,5 mm ² (models where provided for)
Insulation type:	Class II <input type="checkbox"/>
Protection degree:	IP30
Pollution:	Normal
Operating temperature limits:	0 °C ÷ +50 °C
Storage temperature limits:	-10 °C ÷ +65 °C
Temperature adjustment range:	+5 °C ÷ +30 °C
Settable max. temperature limit:	16, 18, 20, 22, 24 °C (settable with range disc)
Reduction temperature:	- 4 °C from temperature setpoint
Precision of reading of the temperature:	± 1 °C
Operation:	ON/OFF with differential
Differential operation:	Δt = 0,4 °C (fixed)
Thermal gradient:	1 °K/15 min
ERP Energy classification:	ErP: Class I; 1% Reg. EU 811/2013
Reference standard for CE mark:	LVD EN60730-2-9 EMC EN60730-2-9

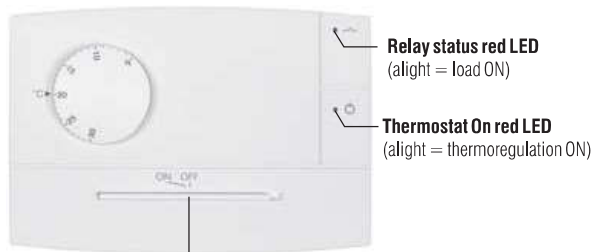
Model with:

- Input for remote control temperature reduction



Model with:

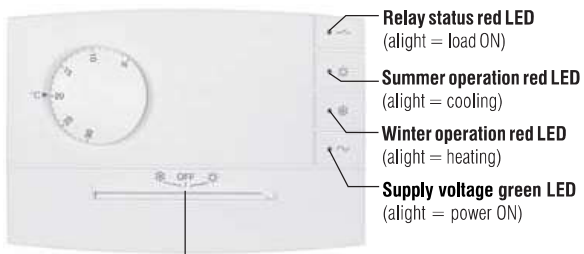
- Input for remote control temperature reduction



Switch:
ON = thermoregulation ON
OFF = thermoregulation OFF

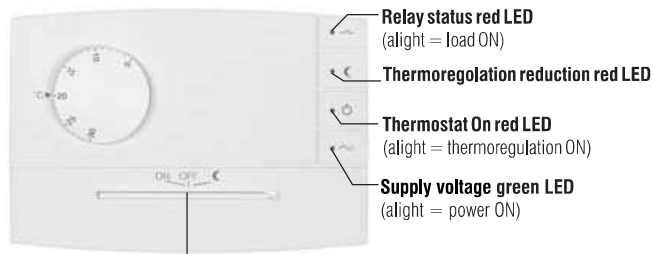
Model with:

- Input for remote control temperature reduction



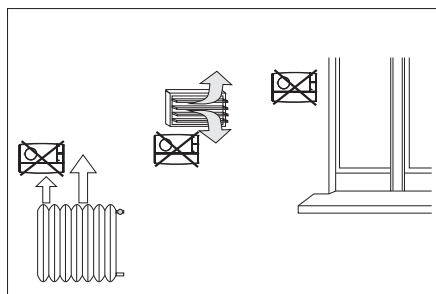
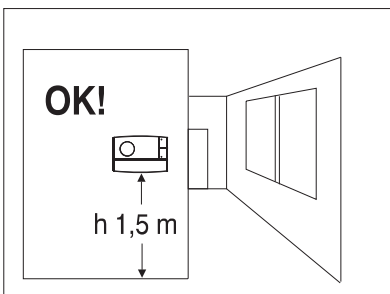
Switch
❄ WINTER = heating operation
OFF = thermoregulation OFF
☀ SUMMER = cooling operation

Model with:



Switch:
ON = thermoregulation ON
OFF = thermoregulation OFF
C = thermoregulation in reduction (operation -4°C from the set temperature)

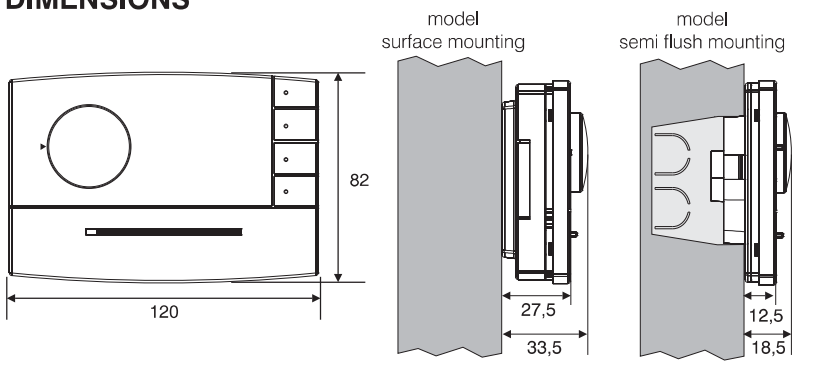
INSTALLATION EXAMPLES



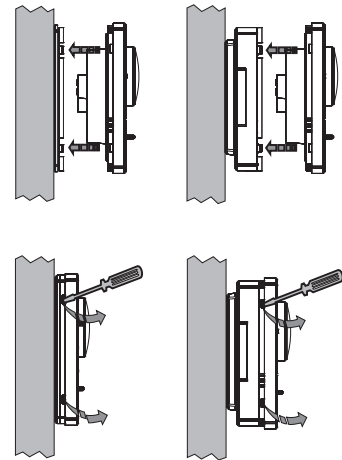
Important: the installation and electrical connections of devices and appliances must be implemented by person with electrotechnical expertise only and in conformity with current laws and regulations. The manufacturer declines any liability in connection with the use of products subject to special environmental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

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.

DIMENSIONS

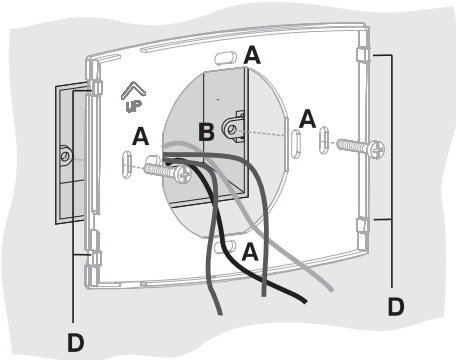


Fixing and removing the thermostat



THERMOSTAT INSTALLATION

Models for SEMI FLUSH mounting

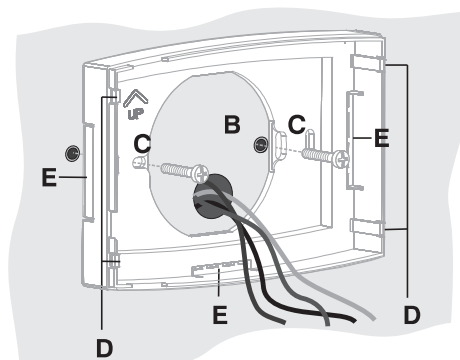


Support for thermostat semi flush mounting



To ensure correct fitting of the thermostat to the support or surface-mounted base, make sure the latter are not distorted by overtightening of the fixing screws in the round or rectangular flush-mounted box.

Models for SURFACE mounting



Base for thermostat surface mounting
(to fix the base directly to the wall, use special plugs not supplied)

- A - Holes for fixing the support:**
to round or rectangular flush-mounted box
- B - Passage of wires from:**
Round or rectangular flush-mounted box,
corrugated tube (for surface-mounted model)
- C - Holes for fixing the base:**
to wall, to round or rectangular flush-mounted box
- D - Thermostat fixing teeth**
- E - Passages for wires from wall raceway (remove diaphragm)**

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ELECTRICAL CONNECTIONS

Switch mains supply off

Connect 230V ~ power supply to the terminals:

n° 1 = Line

n° 2 = Neutral

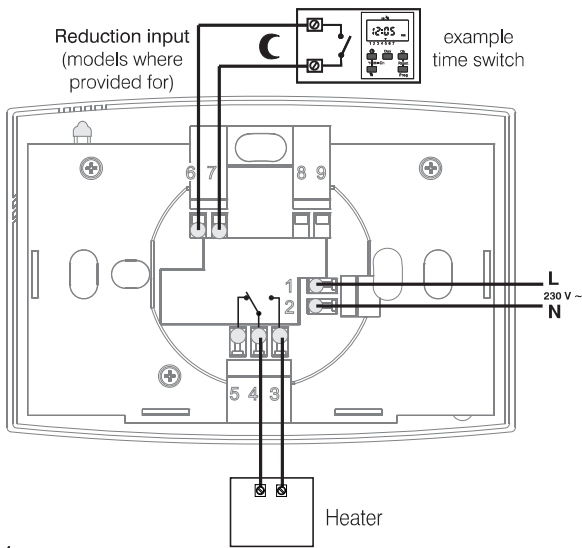
Connect the controlled device to the terminals:

n° 3 = normally open contact

n° 4 = common

n° 5 = normally closed contact

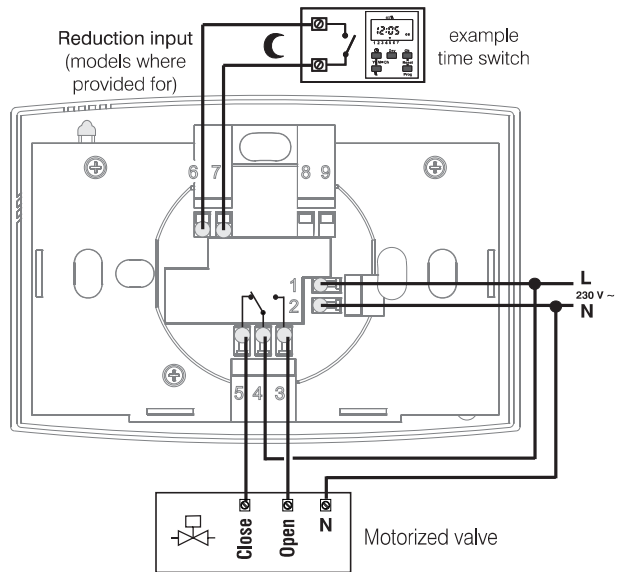
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IMPORTANT: for heavy inductive loads (pumps and solenoid valves) it is advisable to connect an RC filter in parallel with the load.

Connections for the temperature "Reduction" remote control (models where provided for)

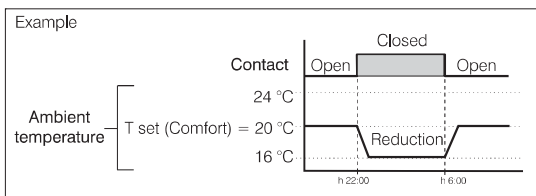
If you want to use remote control of "Comfort" or "Reduction" temperature, connect the exterior contact (potential-free) to the terminals: n° 6 and n° 7 of the thermostat.



Working principle of the onboard (models where provided for) or remote temperature reduction control

“Comfort” Temperature → Open remote contact
 “Reduction” Temperature → Closed remote contact

“Comfort” Temperature → Switch in position ON
 “Reduction” Temperature → Switch in position **C**



Selecting “Reduction” (Economy) temperature determines a decrease of 4 °C with respect to the set temperature value.

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.

For all thermostats

Supply voltage (230V~)

All terminals n° 1: connect the Line

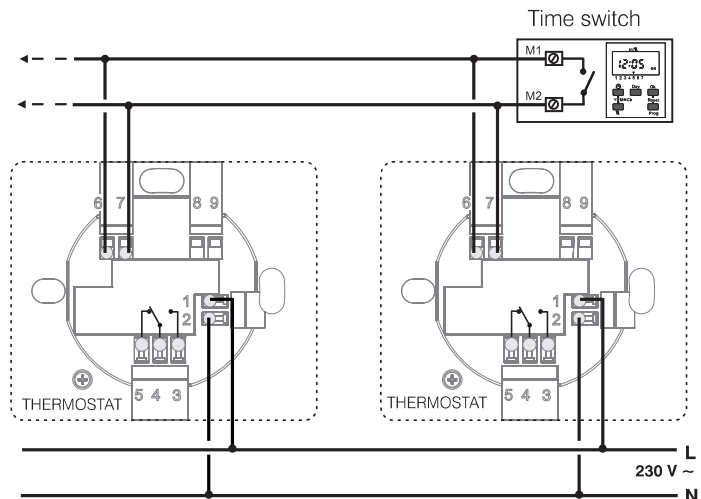
All terminals n° 2: connect the Neutral

Connections for night reduction control

All terminals n°. 6: connect in parallel with output M1 of the remote control (time switch)

All terminals n°. 7: connect in parallel with output M2 of the remote control (time switch)

Note for the contractor: make the electrical connections taking particular care in the event of surface mounting without box that the wires are correctly arranged and do not hinder a proper fit between the body and the base.

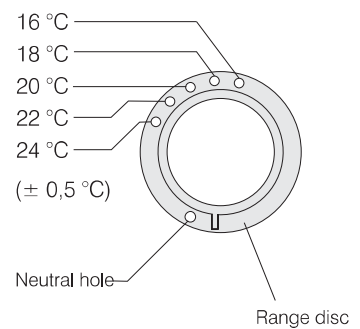


LIMITATION OF THE MAXIMUM ROOM TEMPERATURE

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).

Holes for temperature setpoint limitation



EN Temperature limit setting or its subsequent modification

- a) Turn the knob to the 5 °C (30 °C for models in Summer mode) mark; then remove the knob.
- b-c) Take out the "temperature range" disc and reinsert it by locating the maximum desired temperature hole over the pin placed on thermostat.
- d) Replace the knob, making certain it is positioned as before: 5 °C (30 °C for models in Summer mode) position coinciding with the index on the front of the case.

