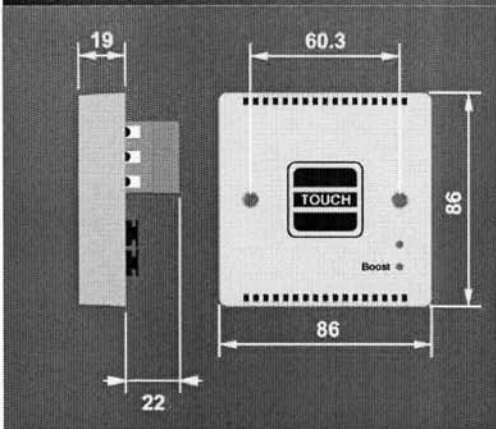


THC1 ELECTRONIC THERMOSTAT



DESCRIPTION AND OPERATION

The THC1 electronic thermostat will accurately maintain the temperature of a room at two levels (or setpoints): the setback temperature and the boost temperature.

Normally the lower setback temperature level is maintained. When the front of the unit is touched, the higher boost level is selected, but only for a preset time period. After the time period the unit reverts to using the setback temperature.

Typically the setback level would be used to maintain background heat in a room. When the occupant requires extra heat, the boost level provides this, but only for the duration of the time period.

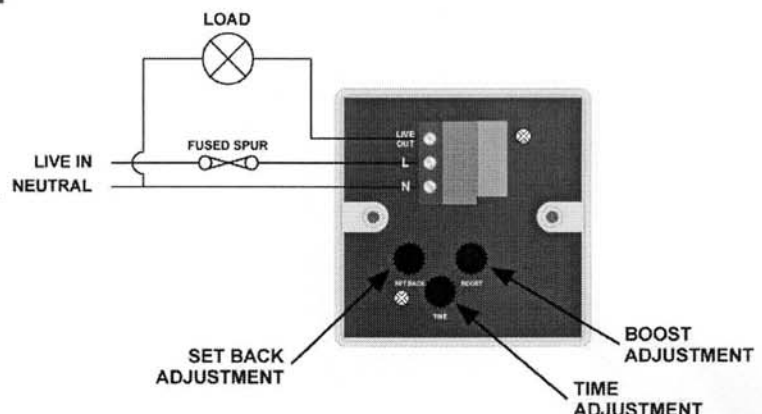
The THC1 can directly switch a heating load making it ideal for the control of panel heaters.

WIRING

Wire the THC1 as in the diagram.

To get accurate temperature measurements, siting the unit in the correct location is important:

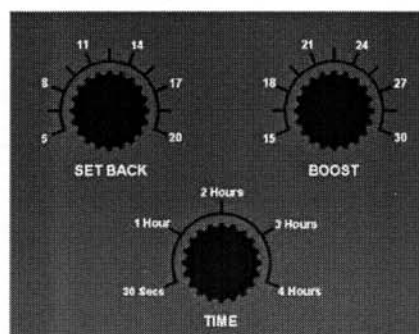
- Always mount onto a wall not a ceiling
- Do not install above a heater
- Allow a clearance of 500mm from the heater being controlled
- Avoid installing near drafts of airflow
- Ideally install at a height of 1.2m to 1.5m
- Do not cover the slots at the top and bottom
- Mounting on an internal wall or partition gives the best measurement accuracy



INSTALLATION

Warning. This device works at mains potential. Be sure to take care when working with electricity.

1. Make sure the load is connected and in working order.
2. Isolate the mains supply to the circuit at the main distribution board.
3. Adjust the setback, boost and time settings according to the diagram.



4. Connect the controller via the terminal block. Live supply to the L terminal, Neutral supply to the N terminal and the load to the LIVE OUT terminal.
5. Screw unit to the wall and switch the mains supply on.
6. If the heater has its own internal thermostat, turn this to maximum.
7. When the RED LED is lit, this indicates that the unit is supplying power to the heater.
8. When the GREEN LED is lit, the unit is using the BOOST temperature.
9. The heater will now come on only if the temperature in the room is less than the thermostat setpoint.
10. Due to variations in room size, heater efficiency, airflow, mounting position, drafts etc. the temperature settings on the dial s should be used as guidance only. It may be necessary to adjust the unit to different settings in order to achieve the required temperatures.
11. To test that the unit is functioning correctly, repeat from step 2 and select maximum boost temperature and minimum timing.

FAULT FINDING

HEATER DOES NOT COME ON

Check that the temperature in the room is below the setpoint. If not, then the heater will not come on. Adjust the temperature settings accordingly.

Check that the boost has been selected—the green light should be on. If this has not been selected then the lower setback temperature setting will be used.

Check the circuit by strapping across L and LIVE OUT terminals.

BOOST LIGHT DOES NOT COME ON

Press the touch pad on the front of the unit.

Check that the unit is powered up by measuring the supply voltage across L and N

ROOM TOO COLD

Check that the heater is working and the thermostat on the heater is turned to maximum.

Check the temperature settings and increase if necessary.

Make sure that the thermostat is not installed above or near to the heater.

ROOM TOO HOT

Check the temperature settings and reduce if necessary.

SPECIFICATION


LOAD

16 Amp resistive heating
Not suitable for controlling quartz heaters

SUPPLY VOLTAGE TIME OUT PERIOD SETBACK TEMPERATURE BOOST TEMPERATURE FIXING METHOD

220-240 Volts AC 50 Hz
Adjustable 30 seconds to 4 hours
Adjustable 5 °C to 20 °C
Adjustable 15 °C to 30 °C
Surface fixing 25mm deep plastic surface mount moulded box.
Flush fixing 35mm steel wall box (ensure top and bottom lugs are removed) or 35mm deep cavity wall box.

TERMINAL CAPACITY MATERIAL TYPE TEMPERATURE CONFORMITY

4.0mm²
Flame retardant ABS
Class 2
-10 °C to 40 °C
EMC-89/336/EEC
LVD-73/23/EEC 

IMPORTANT NOTICE

This device should be installed by a qualified electrician in accordance with the latest edition of the IEE wiring regulations

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