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BN *thermic*



HC-T2 Electronic Control Device

Instructions

ALL WIRING MUST BE CARRIED OUT BY A QUALIFIED ELECTRICIAN AND IN ACCORDANCE WITH IEE WIRING REGULATIONS.

1. Remove front cover by undoing security screws using HC-D tamperproof tool. Position unit out of direct sunlight and away from heating source.
2. Isolate supply then fit unit, pulling wires through hole in base.
3. Connect wiring as shown in diagrams.
4. Where a remote sensor is required use Hard Case model HC-S2. The integral sensor wires should be removed from the sensor terminals and cut back so there is no possibility of the wires coming into contact with an electrical terminal. The black integral sensor should be left in position to block the hole in the unit's wall. The remote HC-S2 sensor should be connected to the sensor terminals using screened cable with the screen connected to the unit's earth connection.
5. If switching a 230V 50Hz output, fit a link between 'L' and 'COM' as shown in Diagram A. For switching other voltages do not fit link but bring connection in on 'COM' as shown in Diagram B.
6. Choose either heating or cooling output.
7. Use integral switch to select high or low temperature range. Set operating temperature required.
8. Set the differential required by using the appropriate knob. 1°C is equal to switch point +/- 0.5°C
9. Fit cover securely.

MAXIMUM SWITCHING CAPACITY: 16A

BN Thermic often incorporates the HC-T2 Electronic Control Device into heating control systems where one of the following applies.

- The HC-T2 takes its supply from the heater it is controlling
- The HC-T2 is used in conjunction with a remote timer

In these circumstances please follow the relevant system wiring diagram – do not follow the connection diagram contained in these instructions.

DIAGRAM A SWITCHING 230V:

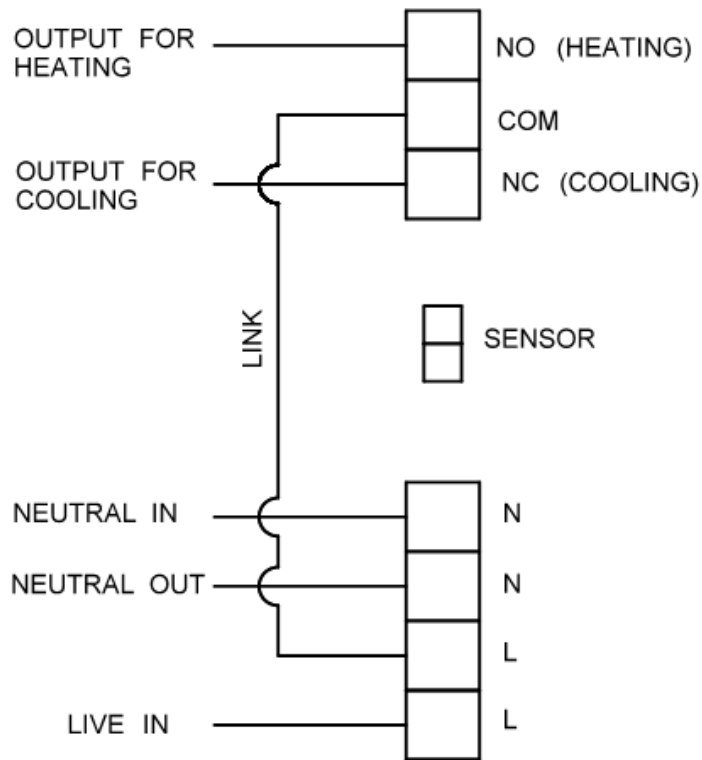
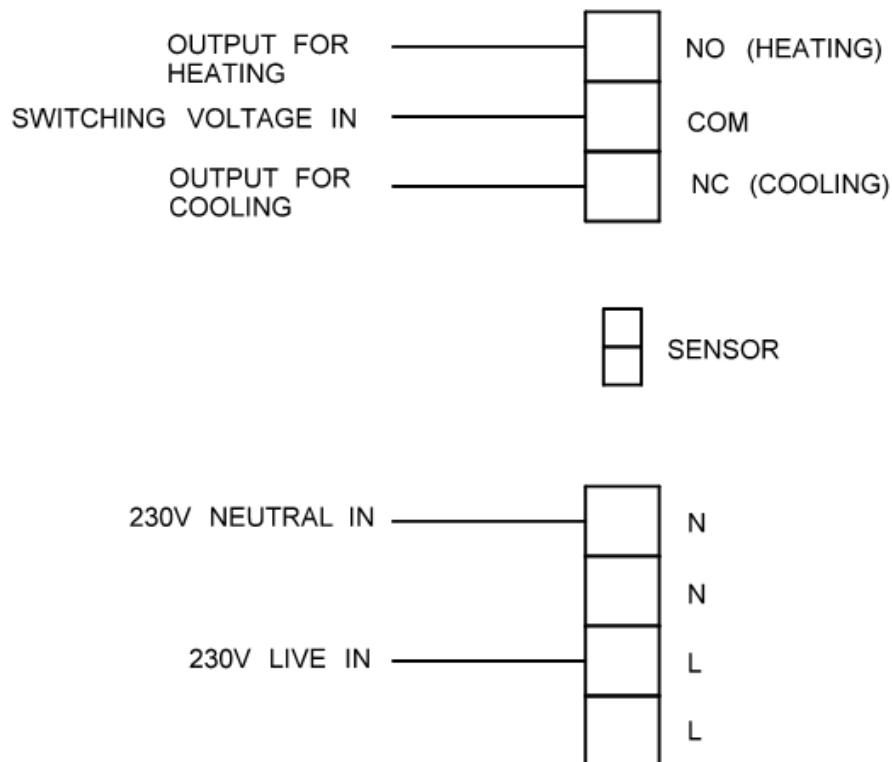


DIAGRAM B SWITCHING OTHER VOLTAGES:



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HC-ST2 Electronic Control Device

Instructions

ALL WIRING MUST BE CARRIED OUT BY A QUALIFIED ELECTRICIAN AND IN ACCORDANCE WITH IEE WIRING REGULATIONS.

The Hard Case HC-ST2 Electronic control device has two adjustable temperature set-points. The default set-point is low (set-back). The higher (comfort) set-point is activated by means of a built-in button or remote switching device (most commonly an external timer).

1. Remove front cover by undoing security screws using HC-D tamperproof tool. Position unit out of direct sunlight and away from heating source.
2. Isolate supply then fit unit, pulling wires through hole in base.
3. Connect wiring as shown in diagrams.
4. Where a remote sensor is required use Hard Case model HC-S2. The integral sensor wires should be removed from the sensor terminals and cut back so there is no possibility of the wires coming into contact with an electrical terminal. The black integral sensor should be left in position to block the hole in the unit's wall. The remote HC-S2 sensor should be connected to the sensor terminals using screened cable with the screen connected to the unit's earth connection.
5. If switching a 230V 50Hz output, fit a link between 'L' and 'COM' as shown in Diagram A. For switching other voltages do not fit link but bring connection in on 'COM' as shown in Diagram B.
6. Choose either heating or cooling output.
7. Set comfort temperature required.
8. Set set-back temperature to default (low) temperature required. Note this is a 'set-back from comfort' setting. For example if the comfort setting is 20°C and the set-back setting is 15°C then default temperature control will be at 5°C (20-15=5).
9. Set the differential required by using the appropriate knob. 1°C is equal to switch +/- 0.5°C
10. Select mode of operation

Mode 1 – Built-In Push Button

- Use the small white switches to select a time delay between ½ hour and 7 ½ hours. The total time delay will be the sum of all switches in the 'on' position.
- When the external button is pressed the temperature setting will change from set-back (low) to comfort (high).

- Once the pre-programmed time delay has elapsed, the temperature setting will revert back to set-back (low) until the button is pushed again.
- Pushing the button for 3 seconds while the system is controlling at a comfort (high) setting will cancel the command and control will immediately revert to set-back (low)
- The indicating light will show blue for set-back and red for comfort

Mode 2 – External Switch (usually programmable timer)

- Disconnect the built-in push button and remove completely
- Plug the hole previously occupied by the push button using the plastic plug supplied
- Ensure all four small white switches are in the 'off' position
- Connect the remote switching device (most commonly a programmable timer) to the 'switch' terminals (see wiring diagram)
- The thermostat will change from comfort (high) and set-back (low) as dictated by the remote timer
- The indicating light will show blue for set-back and red for comfort

11. Fit cover securely.

MAXIMUM SWITCHING CAPACITY: 16A

BN Thermic often incorporates the HC-T2 Electronic Control Device into heating control systems where one of the following applies.

- The HC-ST2 takes its supply from the heater it is controlling
- The HC-ST2 is used in conjunction with a remote timer

In these circumstances please follow the relevant system wiring diagram – do not follow the connection diagram contained in these instructions.

DIAGRAM A SWITCHING 230V:

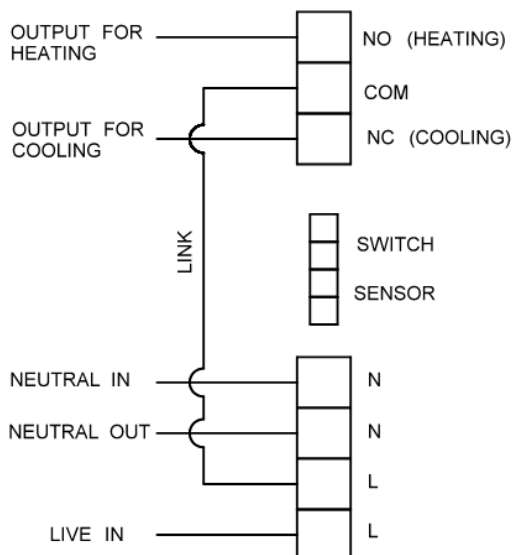


DIAGRAM B SWITCHING OTHER VOLTAGES:

