NOBO HEATING 2 ZONE CONTROLLER

INSTALLATION INSTRUCTIONS

Please read the instructions fully before proceeding and ensure the programmer is suitable for the intended application. A full technical specification is provided in section 7 of this leaflet.

NOTE: INSTALLATION AND CONNECTION SHOULD ONLY BE CARRIED OUT BY A SUITABLY QUALIFIED PERSON AND IN ACCORDANCE WITH THE CURRENT EDITION OF THE IEE WIRING REGULATIONS.
WARNING: ISOLATE MAINS SUPPLY BEFORE COMMENCING INSTALLATION.

1. FITTING THE WIRING PLATE

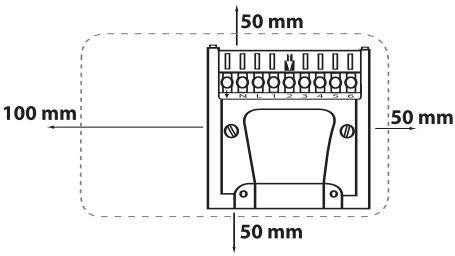


Figure 1: Wiring Plate

Note: Once the wiring plate has been removed from the pack the latter should be re-sealed to protect the programmer from dust, debris etc.
The plate should be fitted with the wiring terminals lying along the top and the relevant clearances around it as shown in figure 1.

Direct wall mounting
Offer the plate to the wall in the position where the programmer is to be mounted, remembering that the plate fits to the right hand end of the programmer.
Mark the fixing positions through the slots in the back-plate (fixing centres 60.3mm), drill and plug the wall, then secure the plate in place.
The slots in the plate will compensate for any misalignment of the fixings.

Wiring box mounting
The plate may be fitted directly onto a single gang steel flush wiring box complying with BS4662, using two M3.5 screws.
NOBO Heating 2 Zone Controller programmers are suitable for surface mounting only on a flat surface, they must not be mounted on a surface mounted wall box or on unearthed metal surfaces.

2. ELECTRICAL CONNECTIONS

All necessary electrical connections should now be made.
Flush wiring can enter from the rear through the aperture in the wiring plate. Surface wiring can only enter from beneath the programmer (see figure 2) and must be securely clamped.

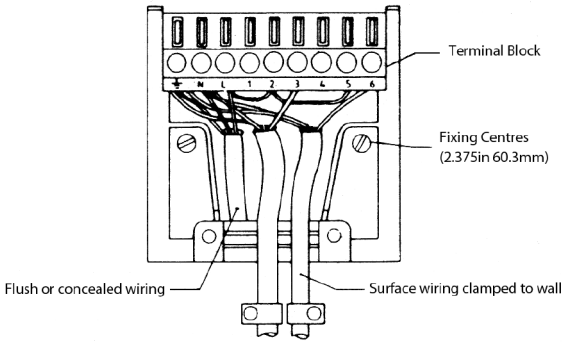


Figure 2
Wiring plate showing methods of entry for surface and flush wiring

The mains supply terminals are intended to be connected to the supply by means of fixed wiring. The recommended cable sizes are 1/1.13mm (1 mm^2) or 1/1.38mm (1.5 mm^2)

Means for disconnection from the supply having a contact separation of at least 3 mm in both poles must be incorporated in the fixed wiring, e.g. fused Double Pole Switch.

NOBO Heating 2 Zone Controller programmers are double insulated and do not require an earth connection but an earth terminal is provided on the wiring plate for terminating any cable earth conductors. Earth continuity must be maintained and all bare earth conductors must be sleeved. Ensure that no conductors are left protruding outside the central space enclosed by the wiring plate.

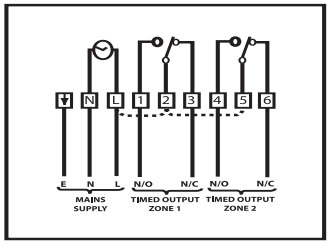


Figure 3
Internal wiring diagram

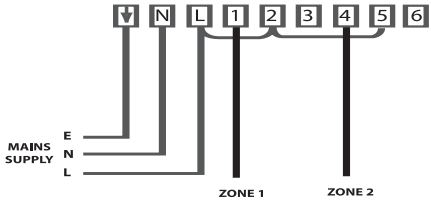
NOTE: terminals L and 2 and 5 should be electrically linked by means of a suitable piece of sleeved conductor (see figure 3).

3. INSTALLATION

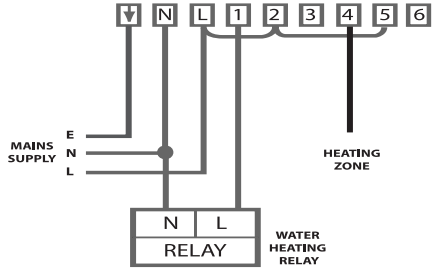
The following wiring diagrams relate to heating and water systems.

THEY ARE SCHEMATIC DIAGRAMS INTENDED FOR GUIDANCE ONLY.
PLEASE ENSURE THAT THE INSTALLATION COMPLIES WITH THE CURRENT IEE REGULATIONS.

1. Two Zone System



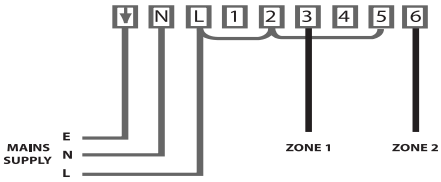
2. Water & Heating control



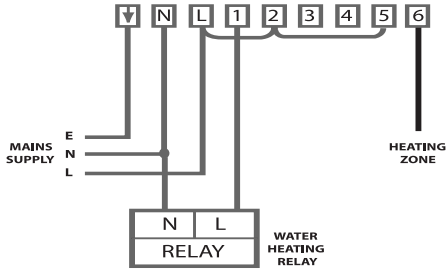
4. ALTERNATIVE INSTALLATIONS

The diagrams below show the connections that must be made if the NOBO Heating 2 zone contoller is to be used with our heaters that have the ZDC control, or our Tractic and Innova ranges.

1. Two Zone System
(ZDC control, Tractic and Innova Ranges ONLY)
ONLY)



2. Water & Heating control
(ZDC control, Tractic and Innova Ranges

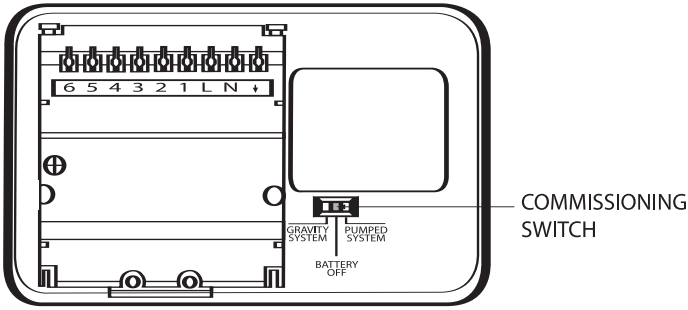


NOTE: The NOBO Heating 2 Zone Controller models covered by this leaflet do not have any SPARE or LINKING terminals. If spare terminals have been used on the programmer being replaced then any connected wires should be removed and re-connected into a separate piece of terminal block. Wires from different spare terminals should not be joined together.

5. COMMISSIONING THE PROGRAMMER

Ensure all dust and debris have been cleared away from the work area before removing the control from its pack.
It is possible to program independent time settings for hot water or Zone 1 and heating or Zone 2.
Correct control of each type of system is ensured by means of a COMMISSIONING SWITCH on the back of the unit (see figure 4).
The programmer is supplied with this switch in the OFF position and in all instances it must be switched to PUMPED SYSTEM in order to engage the battery back up.

Figure 4



Moving the switch from the OFF position also activates the programmers' BATTERY RESERVE. If the unit is installed with the commissioning switch in the OFF position, the word "bAt" will flash on the display when mains power is supplied (see figure 5).
The switch will then need to be moved into the correct position before proceeding further.

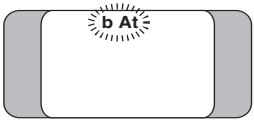


Figure 5

In some cases when the programmer is re-connected the display remains BLANK. Pressing the Heating or Zone 2 ADVANCE and SELECT buttons at the same time will completely RE-SET your programmer and the display should then re-appear.

NOTE: When the programmer is running on battery reserve the clock display will remain blank.

6. FITTING THE PROGRAMMER

If surface wiring has been used, remove the knockout/insert from the bottom of the unit to accommodate it.
Loosen the two "captive" retaining screws on the top of the unit.
Now fit the programmer to the wiring plate by offering up the bottom of the unit to the bottom of the wiring plate, ensuring that the lugs on the programmer engage under the flanges of the plate (see figure 6).
Swing the top of the programmer into position ensuring that the connector blades on the back of the unit locate into the terminal slots in the wiring plate.
Tighten the two "captive" retaining screws to fix the unit securely, then switch on the mains supply.
The unit can now be programmed to suit the user's requirements (see users' instruction leaflet).

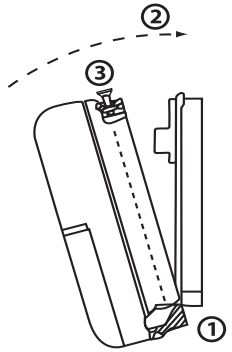


Figure 6

NOTE: Before programming the control RE-SET the unit by pressing the heating (Zone 2) ADVANCE and SELECT buttons at the same time.

7. GENERAL

Before handing over the installation to the user, always verify that the system responds correctly on all control programmes and that other electrically operated equipment and controls are correctly adjusted.
Explain how to operate the control to the user and hand over the operating instructions.

8. SPECIFICATION

Contact type: Microgap changeover (voltage free).

Contact rating: 3(1) Amps 230 to 240V AC

Power supply: 230 to 240V AC 50Hz

Operating temperature range: 0˚C to 55˚C

Double Insulated

Dirt Protection: Normal situations

Enclosure Protection: IP30

Purpose of Control: Electronic time switch

Independently mounted control for surface mounting

Operating Time Limitation: Continuous

Type 1 Action

Battery Reserve: 10 Months continuous operation (minimum)

Case material: Thermoplastic, flame retardant

Dimensions: 101 mm x 163 mm x 33 mm

Display: Liquid crystal with day of week, next switch time, and current program indication

Clock: 12 hour AM/PM

Displayed time adjustment: 1 minute steps

Switched time adjustment: 10 minute steps

Programme Selection: Auto, On all day, On constant, Off, Holiday

Operating periods per day: Three for Zone 1, three for Zone 2

Separate daily programme for each day of the week

Override: Boost -(1 or 2 hour)

Extension to on period - (1 or 2 hour)

Instant advance

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