SPECIFICATION

Purpose of Control:	Electronic time control.
Contact Type:	Micro disconnection (voltage free).
Contact Rating:	3 (1) Amps 230 –240 Volts AC.
Power Supply:	230 Volts AC 50 Hz.
Class:	Class II, Double Insulated.
Back plate Connections:	9 Pin terminal connection.
Operating Temperature Range:	0ºC to 40ºC.
Battery Type:	Lithium.
Enclosure Protection:	IP30.
Case Material:	Thermoplastic, flame retardant.
Dimensions (L x H x D):	163mm x 101mm x 37mm.
Display:	Backlit Fully Graphical LCD.
Display Time Adjustment:	1 Minute steps.
Switched Time Adjustment:	10 Minute steps.
Programme Selection:	Auto, On All Day, On Constant, Off Constant, Holiday.
Operating Periods per Day:	Three per Channel.
Override:	Boost or Extension for 1 or 2 hours, Instant Advance.

INDEX

NOBO Heating UK Limited
Unit 15 Gravelly Industrial Park
Tyburn Road, Erdington
Birmingham
B24 8HZ

Telephone: 0121 328 5671
Facsimile: 0121 327 8580

Email: info@noboheatinguk.com
Website: www.noboheatinguk.com

NOBO HEATING 2 ZONE CONTROLLER

Two Zone, 7 Day, Heating/Hot Water Programmer
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 on page 4 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.

FITTING THE WIRING PLATE

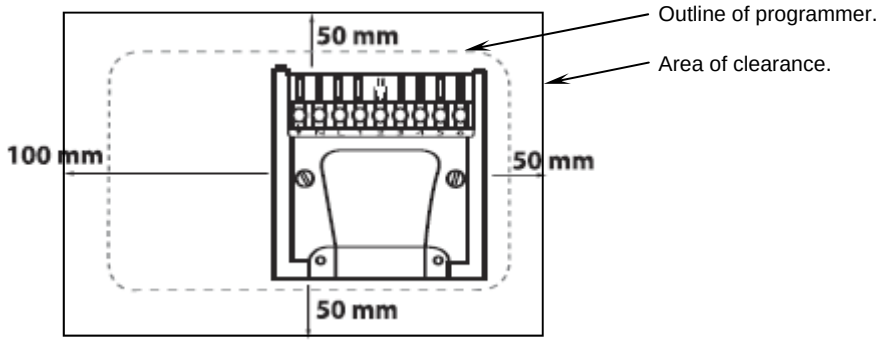


Figure 1 - Wiring Plate

Once the wiring plate has been removed from the packaging please reseal the programmer to prevent damage from dust and 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 wiring 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 two zone programmers are suitable for surface mounting only on a flat surface, they must not be mounted on a surface mounted wall box or unearthed metal surfaces.

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.

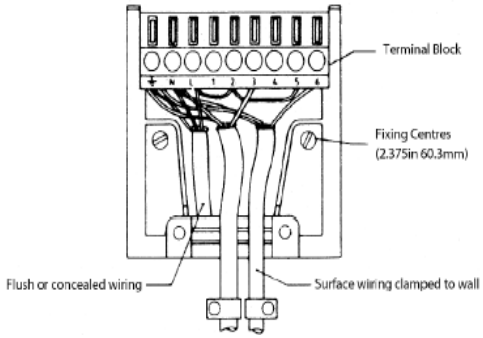


Figure 2 - Wiring plate showing methods of wiring.

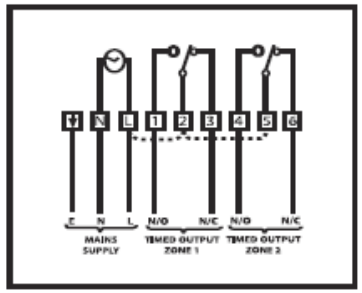


Figure 3 - Internal wiring diagram

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 mm2) or 1/1.38mm (1.5 mm2).

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.

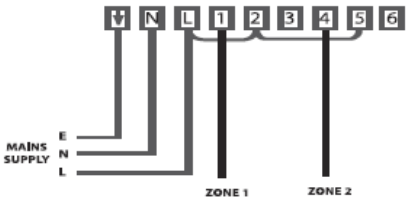
The two Zone programmers are double insulated and do not require an earth connection however an earth terminal is provided on the wiring plate for terminating any earth conductors. Earth continuity must be maintained and all bare earth conductors must be sleeved. Ensure that no conductors are left protruding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

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

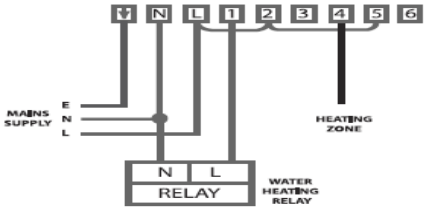
ZONE CONNECTIONS

The following wiring diagrams are schematic diagrams intended for guidance only. Please ensure that the installation complies with the current edition of the IEE regulations.

1. Two Zone System



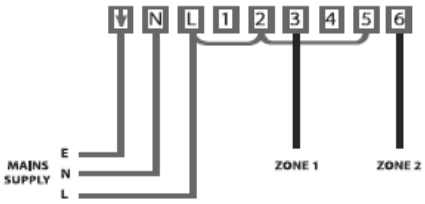
2. Water & Heating control



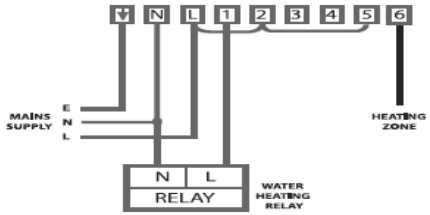
ALTERNATIVE ZONE CONNECTIONS

The diagrams below show the connections that must be made if the two zone programmer is to be used with our heaters that have the ZDC control, or our Tactic and Innova ranges only.

1. Two Zone System



2. Water & Heating control



NOTE: The two zone programmer 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.

COMMISSIONING AND FITTING THE PROGRAMMER

Ensure all dust and debris has been cleared away from the work area before removing the programmer from its packaging. The two zone programmer is suitable for either gravity or fully pumped systems, the choice between these is made with a removable link at the rear of the programmer. On gravity systems both zones will have the same timing settings, whereas fully pumped systems enable independent time settings for each zone. The two zone programmers are supplied suitable for fully pumped systems and the link should remain as fitted.

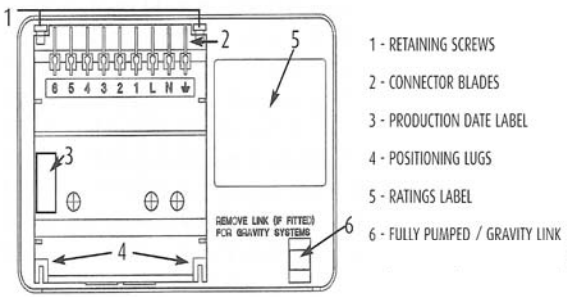


Figure 4 - Rear View of the Two Zone Programmer.

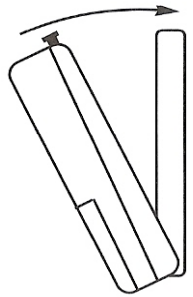


Figure 5 - Side View.

If surface wiring has been used, remove the knockout from the bottom of the programmer to accommodate it. Loosen the two captive retaining screws at the top of the programmer. Fit the programmer to the wiring plate offering the bottom of the programmer to the plate first, so that the positioning lugs locate on the plates flanges. Swing the top of the programmer upwards so that the connection blades on the back of the programmer locate on to the terminals of the wiring plate (Figure 5). Finally tighten the two retaining screws to fix the unit securely, and then switch on the mains supply. Once the mains supply has been switched on the programmer's display will illuminate with the correct date and time. Programming and any further adjustments that are required are covered in the operating instructions.
Before handing over the installation to the end user always ensure that the system responds correctly and that the operation instructions have been handed to them.