

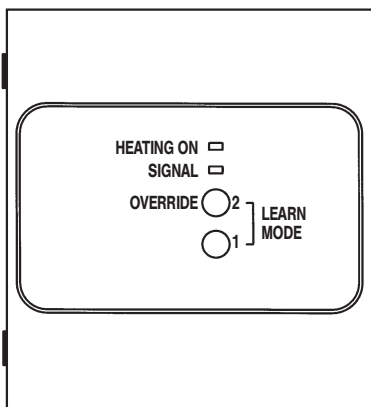


Bosch Group

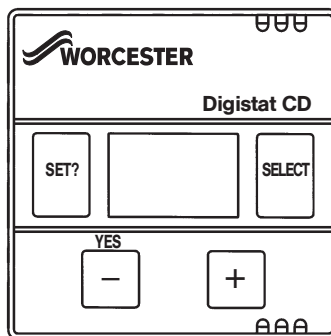
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FITTING AND OPERATING INSTRUCTIONS FOR DIGISTAT CD PROGRAMMABLE 24 HOUR ROOM THERMOSTAT SYSTEM

General information is given in the users instruction leaflet despatched with the appliance and/or on the lighting instruction plate fitted to the appliance.



RECEIVER



TRANSMITTER

THESE INSTRUCTIONS APPLY IN THE UK ONLY

THESE INSTRUCTIONS ARE TO BE LEFT WITH THE USER OR AT THE APPLIANCE

Gas Safety (Installation and Use) Regulations 1984: All gas appliances must be installed by a competent person, in accordance with the above regulations. Failure to install the appliance correctly could lead to prosecution. The manufacturers notes must not be taken, in any way, as overriding statutory obligations.

IMPORTANT: Read these instructions carefully in order to get the best from your appliance.

WARNING: This appliance must be earthed and protected by a 3A fuse if a 13A plug is used, or, if any other type of plug is used, by a 5A fuse either in the plug or adaptor or at the distribution board.

NOTE: The radio signal transmitter used in the Digistat CD conforms to DTI standard and is licence exempt.

TO FIT THE RECEIVER

WARNING: Switch off the power supply at the fascia before starting work.

Lower the control panel as described in the instruction book.

Remove the fascia cover plate by releasing the clips at the rear right-hand side and withdraw it from the front.

Present the receiver to the fascia and plug in the programmer connector into the four-way connection on the board (Fig. 1).

Push the receiver into position ensuring that the lead is not trapped and that the clips have properly engaged.

Refit the control panel before switching on the power supply.

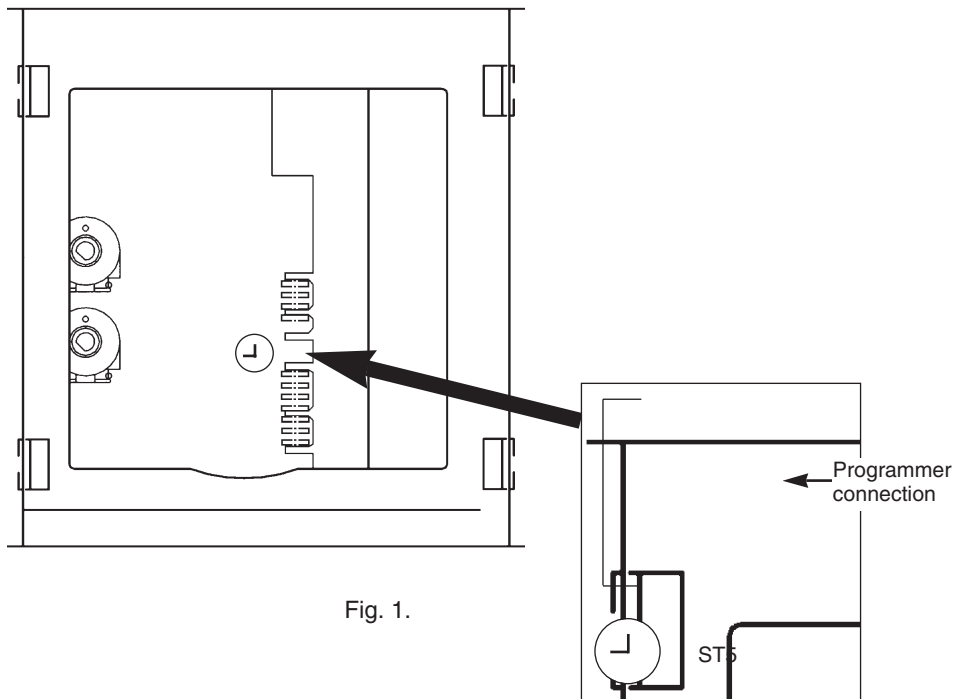


Fig. 1.

COMMISSIONING THE DIGISTAT CD AND RECEIVER

1. Turn on the power to the appliance/receiver.
2. Push the “override” button on the receiver once. The green LED should come on and the appliance should run in central heating mode.
3. To enter the “learn” mode push (and hold) the button marked 1 followed by the button marked 2 (OVERRIDE) and hold both depressed together. The red LED should flash for two seconds then go out signifying that the receiver is in learn mode. Release both buttons.
4. The red and green LED’s should now both be on.
5. Take the Digistat CD and hold it within sight of the receiver (no closer than one metre.)
6. Slide down the right hand battery drawer of the Digistat CD, remove the plastic insulator strip and slide drawer back into place.
7. Repeat the same procedure with the left hand battery drawer. The procedure on the right hand drawer must be carried out first.
8. The Digistat CD should now display the actual room temperature and the time at 12.00 am midnight. if the unit has been stored in a cold place, it may take time to warm up.
9. As soon as both battery compartments are slid back into place, the red LED on the receiver should flash for 7 seconds and then go out. The green LED may be ON or OFF depending on the room temperature at the time of commissioning.
10. If the red LED remains on, slide down both battery drawers on the Digistat CD, check the battery positions are correct, and once the display has faded, repeat steps 6 to 9.
11. Increase the “SET” temperature on the Digistat CD by pressing the “+” button until a flame symbol appears, in the left hand segment of the display.
12. The red LED on the receiver should flash for 7 seconds. This confirms that the radio signal is being sent and received. After 7 seconds the red LED should go out and the green one come on.
13. Check that the appliance is running in central heating mode.
14. Decrease the “SET” temperature on the Digistat CD by pressing the “-” button until the flame symbol disappears.
15. The red LED on the receiver should flash for 7 seconds. After the 7 seconds both the red and green LED’s should go out. Check that the appliance has switched off.
16. The Digistat CD can now be secured to the wall in the desired position.

During normal operation the red LED on the receiver will flash for 7 seconds each time a radio signal is received from the Digistat CD. This will occur approximately every 5 minutes.

The green LED on the receiver denotes a call for heat (ON).

Once the system has been successfully commissioned, buttons 1 and 2 on the receiver should not be pressed simultaneously, unless a replacement Digistat CD or receiver is fitted.

INSTALLING THE DIGISTAT CD

WARNING:

ISOLATE MAINS SUPPLY BEFORE REMOVING ANY EXISTING THERMOSTATS

IMPORTANT

The Digistat CD is a battery (Four type AA 1.5V **alkaline** cells, supplied, replacement must be of the same type) powered wireless unit, using radio signal technology and DOES NOT require any electrical connections. If the Digistat CD is being used to replace an existing hard wired thermostat, the wiring to the old thermostat must be made electrically safe and isolated, as it is no longer required.

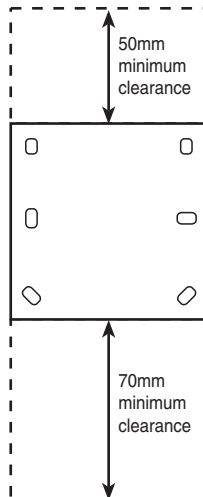
LOCATION

Care should be taken to mount the Digistat CD in a position which is not subjected to direct sunlight or draughts. Preferably it should be mounted on an inside wall, about 1.5m (5ft) above the floor, in a position where it can respond to room temperature but away from the direct influence of radiators or other appliances giving off heat. Minimum wall plate clearances are shown in Fig. 2. It is advisable to carry out the commissioning procedure BEFORE fixing the wallplate, to ensure your chosen location is suitable for transmitting and receiving radio signals. The range of the radio signal is typically 30m, typical house walls have no effect on the signal.

FIXING

1. Loosen the securing screw on the bottom of the Digistat CD and remove the wallplate.
2. Fix the wallplate with securing screw at the bottom directly onto a flat wall. The wall plugs and screws provided must be used. Minimum wall plate clearances are given below (Fig. 2).
3. **Note:** The Digistat CD comes pre-set with a temperature range of 5°C to 30°C. If you wish to select the optional range of 16°C to 30°C remove the selector pin at the rear of the unit.
4. Plug the Digistat CD onto the wallplate and tighten the securing screw DO NOT remove the plastic strips from the battery drawers until you are ready to carry out the commissioning.

Fig. 2.



MAINTENANCE

No maintenance is required for the Digistat CD, apart from battery replacement (Four type AA 1.5V **alkaline** cells, rechargeable batteries must not be used).

USER INSTRUCTIONS

RECEIVER

INITIAL START UP

IMPORTANT: ENSURE THAT THE COMMISSIONING PROCEDURE HAS BEEN CARRIED OUT AS DESCRIBED ABOVE.

RECEIVER NORMAL OPERATING MODE

Once the Digistat CD system has been commissioned, there should be little need for any user interface with the receiver.

During normal operation the red and green LED's will occasionally be on, these signify the following:

GREEN LED

The green LED will be on when there is a demand for heating, and off when there is no demand.

RED LED

The red LED will flash for 7 seconds, approximately every 5 minutes. this denotes that a radio signal is being received from the Digistat CD unit.

SITUATIONS REQUIRING ATTENTION

RED LED CONTINUALLY FLASHING

This denotes that the batteries in the Digistat CD unit are approaching the end of their life (see **Battery replacement**).

RED LED CONTINUALLY ON

This denotes that the receiver has been unable to receive a radio signal from the Digistat CD unit. This may be caused by the batteries being dead (see **Battery replacement**) or some temporary interference with the radio signal.

To re-send and test the signal, go to the Digistat CD unit. If the flame signal is visible on the display, press the “-” button until it disappears. If the flame symbol is not visible, press the “+” button until it appears. If the radio signal has been successfully transmitted and received, the red LED will flash for seven seconds then go off. If the red LED is still on, “learn mode” may have been selected by accident. To correct, open both Digistat CD battery drawers and wait for the display to fade, close the right hand drawer followed by the left and re-programme the Digistat CD with your desired time and temperature settings.

If the red LED is still on, there may be some other fault that will require the attention of a heating engineer/electrician.

MANUAL OVERRIDE

The heating can be manually switched on and off by using the “OVERRIDE” button on the receiver in a fault situation, even though the red LED will stay on until a satisfactory signal is reinstated.

Once the receiver receives a satisfactory signal again, it will automatically reset itself for normal operation.

DIGISTAT CD

Once the system has been commissioned, the unit will display the actual room temperature and the time at somewhere after 12.00 am (midnight). Digistat CD has an indicator to show when the heating system is ON or OFF, e.g. if the SET temperature is 20°C and the actual temperature is below 20°C a flame symbol will appear on the display (Fig. 3). This indicates a demand for heat (system will switch ON).



Figure 3

During normal operation, the Digistat CD will display actual room temperature continuously.

Digistat CD is supplied with a pre-set programme shown below which can be easily changed to suit your requirements:

Table 1

FACTORY PRE-SET PROGRAMMES

Setting	Time	Temperature
Day 1	6.30 am	20°C
Day 2	8.30 am	16°C
Day 3	4.30 pm	21°C
Night	10.30 pm	7°C*

* 16°C if selector pin removed see INSTALLING THE Digistat CD

GENERAL

Digistat CD uses a question and answer routine to simplify programming. When the "SET" button is first pressed, the Digistat CD display will be as Fig. 4 indicating "SET CLOCK?". Pressing "SET" again displays Fig. 6, indicating "SET PROGRAMME?".

If you want to enter either of the setting modes to make changes, simply press the "YES" (-) button in answer to the relevant question. If the programme item displayed is not the one you wish to change, continue pressing "SET" until the desired option appears.



Figure 4



Figure 5

TO SET THE CLOCK

Press the "SET" button once. The clock symbol will flash and the word SET? will be displayed (Fig. 4).

Pressing the "YES" (-) button once will display the current time, with the hours flashing (Fig. 5). Use the "+" and "-" buttons to set the correct hour. Press the "SET" button again and the minutes will flash, use the "+" and "-" buttons to set the correct time to the nearest minute.

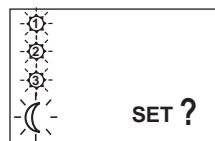


Figure 6

TO VIEW OR CHANGE THE PRE-PROGRAMMED TIMES AND TEMPERATURES

Press the "SET" button until the display shows the "Programme Set" symbols (Fig. 6.)

Press the "YES" (-) button once and the display shows the first programmed time and temperature with the temperature flashing (Fig. 7).

If you only wish to view the settings, continue to press "SET" until the Digistat CD returns to normal operating mode. Use the SET button to advance through the other times and temperatures. To alter any of the four times or temperature, press the "+" or "-" button when the time or temperature you wish to alter is flashing, i.e. changes made when the display is flashing as in Figure 8 would alter the fourth, or night switching time.



Figure 7

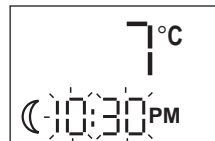


Figure 8

It is possible to programme any of the switch periods as "OFF", by pressing the "-" button when the Digistat CD is in a "temperature set" mode and reducing the temperature below 5°C until the display reads "- -°C". This can be achieved in steps or by holding the "-" button which will give a continuous run down. Once all times and temperatures have been programmed press "SET" a final time to return the Digistat CD to normal operating mode.

OPERATING MODES

The Digistat CD can be operated in one of three modes.

- 1) ☉ – Timed, all pre-set times and temperatures
- 2) ☾ – Continuous night temperature (useful for low limit temperature protection when on holiday)
- 3) ☼ – Continuous "DAY 1" temperature

Use the "SELECT" button to change the operating mode to suit your requirements, the symbols are positioned on the right hand side of the display.

TEMPERATURE OVERRIDE

If at anytime during normal operation, you wish to temporarily increase or decrease the set temperature use the "+" or "-" buttons to change to your desired setting. This can be done without entering the "SET" mode. 5 seconds after releasing the "+" or "-" button the display will revert to showing the actual room temperature. The Digistat CD will now control the temperature to the override setting until the next programmed switching time, when it will revert to the times and temperatures you have already programmed.

NOTE: If the next programmed temperature setting is the same as the present programmed setting, the override temperature will remain in force.

BATTERY REPLACEMENT

Thirty days before the batteries need replacing, a battery symbol will flash in the right hand side of the display. (Fig. 9). This signifies that 4 x 1.5v type AA **alkaline** batteries will be needed to replace the old ones. If battery replacement is carried out in this condition the settings will only be held in the memory for a maximum of one minute, after which reprogramming may be necessary.

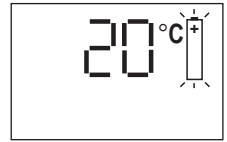


Figure 9

Important

To avoid the possibility of having to reprogramme the switching times and temperatures, it is advisable to wait until the flashing battery display changes to a continuous battery only display (after 30 days). (Fig. 10).

In this condition the unit will be OFF but your programmed settings will be held in the memory for a number of weeks. The battery compartment can now be left opened, to replace the batteries for approximately one hour. If the compartment is left opened for longer the unit will revert to the factory preset times and temperatures. It may be necessary to reset the correct time of day after changing the batteries.



Figure 10

The battery compartment is situated at the bottom of the unit (press to unlatch and slide down). Ensure new batteries are positioned correctly. Close right hand compartment first.

HELPFUL HINTS

1. FIRST/LAST SET TIMES

The Day 1 setting ☼ cannot be programmed before 12.00 am. The night setting ☾ can be programmed at whatever time you require, even after 12.00 am (midnight) so long as it is not more than 23 hours 50 minutes after the Day 1 setting.

2. PART OR FULL DAY OMISSION

If during programming the Digistat CD one of the symbols on the left hand side of the screen starts to flash, this indicates that two or more of the switching times have been set to the same time. This facility enables you to omit one or more of the switching periods. When one or more of the switching times are programmed together the later setting takes precedent. For example, if all four switching times were set together the Digistat CD would control continuously at the fourth (night) temperature setting ☾.

3. PROGRAMME SEQUENCE

The Digistat CD will not allow you to program the switched periods out of sequence but will hold the times together as stated above.

4. RESET

If at any time during the programming you get confused and would like to start the procedure from the beginning press the "SELECT" and "-" buttons at the same time and hold for two seconds. this resets the Digistat CD to the factory pre-set times and temperatures (Table 1).

5. SELF REVERT

If during programming no button is pressed for between 1 and 2 minutes the Digistat CD will revert automatically to its normal operating mode.

HOT WATER SUPPLY

Hot water is available whenever a tap or shower is turned on. The supply of hot water takes priority over the delivery of heat to the central heating system for the period that the hot water is required.

TEMPERATURE CONTROL

The central heating water temperature is controlled by the centre knob on the facia.

The domestic hot water temperature is controlled by the right hand knob on the facia up to a pre-set maximum.

REPLACEMENT PARTS

The receiver and Digistat CD are available separately for replacements or as a complete system.

G.C. No.	Part	WHS Part No.
E01-051	Transmitter – Digistat CD	7 716 192 004
E01-052	Receiver – Digistat CD	7 716 192 005
E01-053	Digistat Wireless System	7 716 192 006



*Worcester Heat Systems Limited, Cotswold Way, Warndon, Worcester WR4 9SW.
Telephone: (01905) 754624. Fax: (01905) 754619.
Technical Helpline (0990) 266241.*

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PUBLICATION 8 716 145 055d 11/00