

BATTERY REPLACEMENT

30 days before the batteries need replacing, a battery symbol will flash in the right hand side of the display (Dia. C). This signifies that four 1.5V type AA **alkaline batteries** will be needed to replace the existing ones. If battery replacement is carried out in this condition the programmed settings will only be held in the memory for a maximum of one minute, after which re-programming may be necessary.

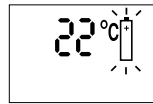


Diagram C



Diagram D



IMPORTANT

To avoid the possibility of having to reprogramme the switching times and temperatures, it is advisable to wait until the display with a flashing battery symbol changes to a continuous battery only display (after 30 days – Dia. D). In this condition the unit will remain OFF but your programmed settings will be held in the memory for a number of weeks. The two battery compartments can now be left open, to replace the batteries, for approximately one hour. If the compartments are left open 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.


The battery compartments are situated at the bottom of the unit (press to unlatch and slide down). Ensure new batteries are installed correctly. Close the right hand compartment first followed by the left.

HELPFUL HINTS

1. First/last set times

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

2. Part or full day omission

If during programming the Digistat, 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 switched periods. When one or more switching times are programmed together the later setting takes precedent. For example, if all four switching times were set together the Digistat would control continuously at the fourth (night) temperature setting .

3. Programme sequence

The Digistat 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 to the factory preset times and temperatures shown in the table (overleaf).


5. Self revert

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

IMPORTANT

This product operates on a new frequency of 433 MHz and is not interchangeable with previous 418 MHz units which can be easily identified:

433 MHz = **Drayton** brand

418 MHz =  **Drayton** brand

CONFORMS TO THE ESSENTIAL REQUIREMENTS OF THE FOLLOWING DIRECTIVES:

89/336/EEC Electromagnetic compatibility



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Digistat RF3i 'Wireless System'

User instructions

SCR RECEIVER

INITIAL START UP

IMPORTANT: ENSURE THAT THE COMMISSIONING PROCEDURE HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE ENCLOSED INSTRUCTIONS.

SCR (RECEIVER) NORMAL OPERATING MODE

Once the 'Wireless System' has been commissioned, there should be little need for any user interface with the SCR.

During normal operation the red and green LEDs 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 RF unit.

SITUATIONS REQUIRING ATTENTION

Red LED continually flashing

This denotes that the batteries in the Digistat RF unit are approaching the end of their life (see 'battery replacement').

Red LED continually on

This denotes that the SCR has been unable to receive a radio signal from the Digistat RF 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 RF unit. If the flame symbol 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 7 seconds then go off. If the red LED is still on, 'learn mode' may have been selected by accident (SCR buttons 1 and 2 pressed simultaneously). To correct, open both RF battery drawers and wait for the display to fade, close the right hand drawer followed by the left and reprogramme RF 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 SCR in a fault situation, even though the red LED will stay on until a satisfactory signal is reinstated.

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

The Digistat RF3i features unique self learning optimum start software. They can help achieve savings in excess of 10% on heating costs and reduce CO₂ emissions, by delaying the start time on milder days without affecting your comfort level.

USER INSTRUCTIONS FOR OPTIMUM START

There is no extra programming involved. The self learning software is factory preset and will start to monitor and adjust the heating start times for setting as soon as the unit is installed.

The optimum start feature only operates on the first switching time of each day (). Switching times , and switch at the programmed times without any delay.

The delay period can vary between 0 - 60 minutes depending on:

- The actual room temperature at the first switching time ().
- The set temperature of the Digistat RF3i.
- The stored data on how fast the heating system responded the previous day.

During normal operation the flame symbol on the display indicates the current operating status.

Flame on = heating on

No flame = heating off

Flashing flame = saving energy (optimum start cycle operating)

When the flame is flashing, the optimum start cycle can be overridden by pressing the + button once. This returns the unit to normal operation.

IMPORTANT

Always set your heating to the time that you would normally wish it to start allowing for the coldest weather conditions. Optimum start will automatically delay the start time and save you money on milder days.

DIGISTAT RF3i

Once the 'wireless system' has been commissioned, the unit will display the actual room temperature and the time at somewhere after 12.00 midnight (Diagram A).

Note: If this unit has replaced a standard room thermo-stat and/or a programmer is incorporated in the control system, it is suggested that the central heating (CH) channel is switched to On/Cont/24hrs. Operation of the heating times and temperatures will be controlled by this unit.

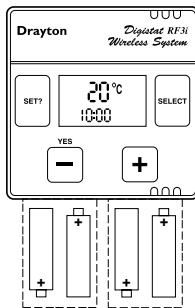


Diagram A



Diagram B

Digistat RF3i 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 room temperature is below 20°C a flame symbol will appear on the display (Diagram B). This indicates a demand for heat (system will switch ON).

During normal operation, the Digistat RF3i will display actual room temperature continuously.

SETTING THE TIME OF DAY (STEPS 1-5)

THE DIAGRAM NEXT TO EACH STEP DESCRIPTION SHOWS RESULTING DISPLAY.

- Press "SET?" button



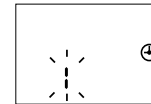
- Press "Yes" (-) button. The hours will flash as Fig. 2. Use the + and - buttons to set correct hour.



- Press "SET?" button again and the minutes will flash, use + and - buttons to set correct minute time.



- Press "SET?" button, day of the week will flash, 1 = Monday, 7 = Sunday, use + and - buttons to set correct day.



- Press "SET?" button twice to return to normal operating mode.



PRE-PROGRAMMED TIMES AND TEMPERATURES

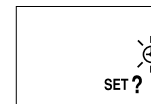
The Digistat RF3i comes with the following preset programme.

Symbol	Mon-Fri Time	Sat-Sun Time	Temperature
☀	6.30	7.00	20°C
☀	8.30	9.00	16°C
☀	4.30 pm	4.00 pm	21°C
☾	10.30 pm	11.00 pm	7°C*

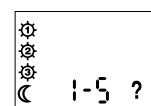
* 16°C if selector pin removed, see installation instructions.

TO VIEW OR CHANGE THE FACTORY SETTINGS (steps 6-14)

- Press the "SET?" button until this display is shown.



- Press the Yes (-) button. You have selected the Monday to Friday part of the programme.



- Press the Yes (-) button again. This tells you that at 6.30, the heating system will control your home at 20°C. If you wish to alter the temperature use the + and - buttons.



- Press the "SET?" button. The time will now flash. If you wish to alter the switching time use the + and - buttons. This will change the switching time in 10 minute steps.



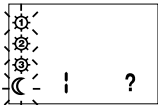
- Press the "SET?" button, this tells you that at 8.30, the heating system will control your home at 16°C. If you wish to alter this temperature use the + and - buttons.



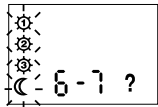
- Continue to press the "SET?" button as in steps 9 and 10 above to advance through the times and temperatures for Mon. to Fri. (1 - 5). If you wish to alter any of the times and temperatures use the + and - button, when the one you wish to alter is flashing.



- Once Mon. to Fri. have been set, the display will show as here. This means do you want to set the times for Monday (1) differently from the rest of the week? If you do, press the Yes (-) Button, and follow the routine as steps 9 to 11.



- Continue to press the "SET?" button to advance through the week (1 - 5). When this display shows, press the Yes (-) button if you wish to view or alter the times for Sat.-Sun. (6-7). Repeat steps 9-12 as required.



- Continue to press "SET?" button until you return to normal operating mode with a display similar to the one shown here.



OPERATING MODES

The Digistat can be operated in one of three modes.

- ☀ - Timed, all preset times and temperatures
- ☾ - Continuous night temperature (useful for low limit temperature protection when on holiday)
- ☀ - 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 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.

Continued overleaf