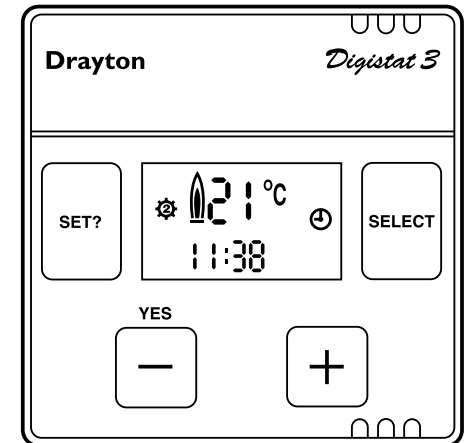


Digistat 3

7 Day programmable room thermostat

Installation and operating instructions



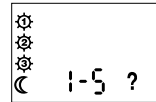
TO VIEW OR CHANGE THE FACTORY SETTINGS

(steps 6-14)

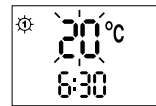
6. Press the "SET?" button until this display is shown.



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



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



9. 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.



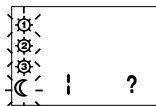
10. Press the "SET?" button, this tells you that at 8.30 a.m., the heating system will control your home at 16°C. If you wish to alter this temperature use the + and - buttons.



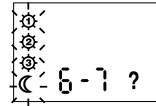
11. Continue to press the "SET?" button as in steps 9 and 10 above to advance through the times and temperatures for Mon. to Fri. (1-5). If you wish to alter any of the times and temperatures use the + and - button, when the one you wish to alter is flashing.



12. 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.



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



14. 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.

- 1) ☀ – Timed, all preset 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. Five 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.

BATTERY REPLACEMENT

30 days before the batteries need re-replacing, a battery symbol will flash in the right hand side of the display (Diagram C). This signifies that two 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.

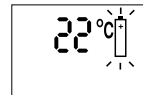


Diagram C

IMPORTANT

To avoid the possibility of having to re-programme 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 - Diagram D). In this condition the unit will remain OFF but your



Diagram D

programmed settings will be held in memory for a number of weeks. The battery compartment can now be left open, to replace the batteries, for approximately one hour. If the compartment is 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 compartment is situated at the bottom of the unit (press to unlatch and slide down). Ensure new batteries are installed correctly.

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 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.

CONFORMS TO THE ESSENTIAL REQUIREMENTS OF THE FOLLOWING DIRECTIVES:

89/336/EEC – Electromagnetic compatibility
73/23/EEC – Low voltage directive



Siebe Climate Controls Limited

Chantry Close, West Drayton, Middlesex UB7 7SP
Telephone: (01895) 444012 Sales Fax: (01895) 421901
Technical Helpline Telephone: (01895) 460444

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Digistat 3

7 Day programmable room thermostat

Installation and operating instructions

GENERAL DESCRIPTION

Digistat 3 is a sophisticated 7 day programmable room thermostat designed for use in normal operating environments. Featuring 7 day or 5/2 day programming, four time/temperature settings and night set-back, it provides greater levels of comfort and economy for new or existing central heating systems. The result of our continuous development programme, Digistat 3 combines ease of use with proven reliability.

ELECTRICAL CONNECTIONS

If the Digistat is to be used as a direct replacement for an existing room thermostat refer to the table below which shows the wiring conversion necessary for correct operation.

Make/model	Common	Demand	Satisfied	Neutral	Earth
Drayton Digistat 3*	I	3	2	Not required	
Drayton RTS 1&2	L	3	-	N	-
ACL TSI 142	I	2	-	4	E
ACL TA350	I	3	2	-	5
Drayton RT/RTE	I	2	3	4	-
Honeywell 6060/6160	I	3	4	2	-
Satchwell TLX 2259	3	I	-	4	E

* Digistat is battery operated and double insulated therefore neutral and earth connections are not required. Unused existing cables should be safely isolated.

SPECIFICATION

Temperature range:	5°C to 30°C, set in 1°C steps 16°C to 30°C (selectable)
Power supply:	Two type AA1.5v alkaline cells – supplied (typical battery life two years)
Switch rating:	2 (I) A 230V 50 HZ
Switch type:	SPDT, relay (volt free)
Temperature sensor:	Electronic
Timing resolution:	1 minute
Programming resolution:	10 minutes
Mounting:	Suitable for surface or conduit box mounting
Wiring:	Designed for fixed wiring only, to comply with current IEE regulations

WARNING

Isolate mains supply before fitting Digistat or removing an existing room thermostat.

A switch having contact separation of at least 3mm in all poles must be incorporated in the fixed wiring as a means of providing full disconnection of the mains supply.

REPLACING EXISTING ROOM THERMOSTAT

Before any existing room thermostat is removed, note the position and colour of wires already connected. Follow the instructions below for 'new installations' referring to the conversion chart overleaf if the function of each wire is not known.

IMPORTANT

If the previous room thermostat used a neutral and/or earth supply, these **should not** be connected to the Digistat and should be safely isolated.

NEW INSTALLATION

Location

Care should be taken to mount the Digistat in a position which is not subject 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.

Installation

If you do not have the knowledge to install the Digistat safely arrange for a competent electrician to do the job for you. Wiring should conform to the current IEE regulations.

Fixing

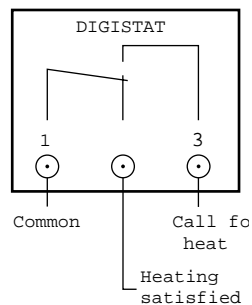
- Loosen the securing screw, remove the wall-plate and, if surface wiring is to be used, snap out the cable entry panel on the bottom edge of the Digistat using a pair of pliers.
- Fix the wall-plate, terminals at the top, either direct onto a flat wall using wall plugs and No 6 x 1" woodscrews or on a flush mounting single conduit box using M 3.5 x 14 screws.
- Complete the wiring to the wall-plate in accordance with the diagram below.
- Note: the Digistat comes preset 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 blue selector pin at the rear of the unit before fitting.

5. Plug the Digistat onto the wall-plate and tighten the securing screw.

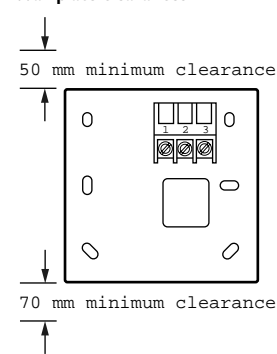
6. Before switching on the mains **ENSURE THE CIRCUIT FUSE IS 3A.**

Wiring (schematic)

See 'IMPORTANT' note in box opposite.



Wall plate clearances



Maintenance

No regular maintenance is required for this product.

Note: If Digistat 3 has replaced a standard room thermostat and a programmer is also incorporated in the control system, it is suggested that the central heating (C.H.) channel is switched to on/continuous/24hrs. Operation of the central heating times and temperature will be controlled by Digistat 3.

INITIAL START UP

Open the battery compartment situated at the bottom left hand corner (press to unlatch and slide down). Remove the insulator strip from between the batteries and their contacts and close the compartment.

The unit will now display the actual room temperature and time at 12.00 am, midnight (Diagram A).

If the unit has been stored in a cold place, it may take time to warm up.

Digistat 3 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 3 will display actual room temperature continuously.



SYSTEM OFF Diagram A

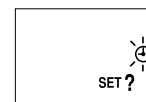


SYSTEM ON Diagram B

SETTING THE TIME OF DAY (steps 1-4)

The diagram next to each step description shows resulting display.

1. Press "SET?" button



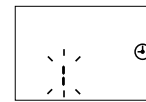
2. Press "Yes" (-) button. The hours will flash as this diagram. Use the + and - buttons to set correct hour.



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



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



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



PRE-PROGRAMMED TIMES AND TEMPERATURES

The Digistat 3 comes with the following preset programme.

Symbol	Mon-Fri Time	Sat-Sun Time	Temperature
☀	6.30 am	7.00 am	20°C
☀	8.30 am	9.00 am	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