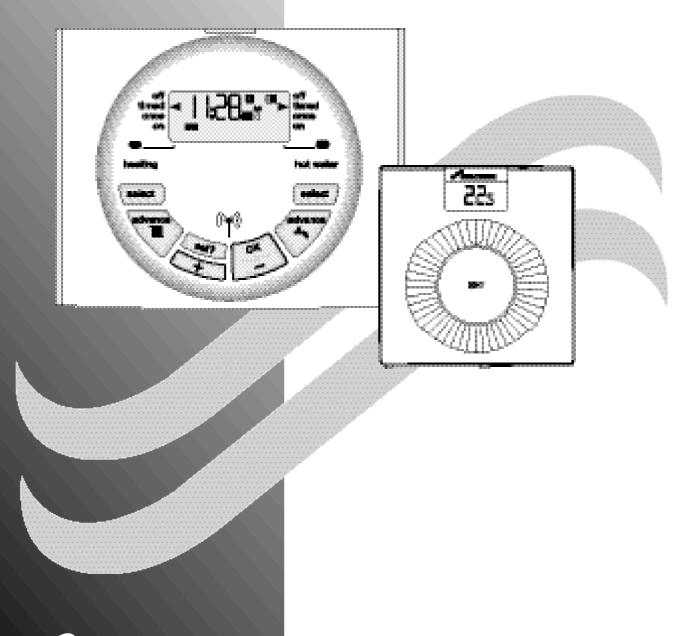
### **DT20RF PROGRAMMER**

**DIGISTAT** - Radio frequency controlled room thermostat with twin channel digital programmer

FOR GREENSTAR CDi, GREENSTAR i JUNIOR and GREENSTAR Si MODELS ALSO GREENSTAR i SYSTEM AND GREENSTAR CDi SYSTEM (ONLY WHEN USED IN CONJUNCTION WITH OPTIONAL INTEGRAL DIVERTER VALVE



WORCESTER

**Bosch Group** 

**INSTRUCTION MANUAL** 

**OPERATING & INSTALLATION** 

#### **WORCESTER, BOSCH GROUP:**

TECHNICAL 08705 266241

SERVICE 08547 256206

SPARES 01905 752571

LITERATURE 01905 752556

TRAINING 01905 752526

SALES 01905 752640

WEBSITE worcester-bosch.co.uk

#### **SYMBOLS**



Central Heating



Domestic Hot Water



Radio Frequency (RF) Transmitter

## PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING

THESE INSTRUCTIONS ARE APPLICABLE TO THE WORCESTER BOSCH MODEL(S) STATED ON THE FRONT COVER OF THIS MANUAL ONLY AND MUST NOT BE USED WITH ANY OTHER MAKE OR MODEL

THESE INSTRUCTIONS APPLY IN THE UK ONLY AND SHOULD BE FOLLOWED EXCEPT FOR ANY STATUTORY OBLIGATION

IF YOU ARE IN ANY DOUBT CONTACT WORCESTER BOSCH TECHNICAL HELPLINE

THIS ACCESSORY MUST BE FITTED BY A COMPETENT PERSON. FAILURE TO COMPLY COULD LEAD TO PROSECUTION.

LEAVE THESE INSTRUCTIONS WITH THE USER OR AT THE APPLIANCE.

#### **ABBREVIATIONS**

CH = Central Heating

DHW = Domestic Hot Water

RF = Radio Frequency

DLS = Daylight Saving

BST = British Summer Time

GMT = Greenwich Mean Time

C = Celsius (Centigrade)

IP = Ingress Protection

V = Volt

m = metre

mA = milliAmpere

#### **DEFINITIONS (DLS/BST)**

Summer period begins: Last Sunday in March at 1:00 am GMT (Clocks are put forward by 1 hour)

Summer period ends: Last Sunday in October at 2:00 am BST (Clocks put back 1 hour)

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	DIGISTAT TRANSMITTER ROOM THERMOSTAT	DT20RF RECEIVER		
Power supply	2xAA 1.5V alkaline batteries	24Vd.c. less than 65mA		
Radio frequency	433 MHz	433 MHz		
Radio signal range	The range may be affected by the composition / density and number of walls between the Digistat RF and receiver.			
	30 metres typically, through two internal plasterboard walls and a ceiling.			
	3, 3,	e internal plasterboard walls and a ceiling.		
	17 metres typically, through two internal plasterboard walls a ceiling and one external cavity wall.			
	These distances are provided for guidance only, many factors can affect the range of the transmitter, including metal pipework, appliances and even furniture.			
Temperature setting range	5°C to 30°C	5°C to 30°C		
Control Accuracy:	+ 0.5°C @ 20°C	better than ±1 second per day @ 25°C		
Ambient Temperature: Operating	0°C to 50°C	0 to 50°C		
Ambient Temperature: Storage	−20°C to 55°C			
Humidity operating range	30 - 95 % non condensing up to 4			
Mounting:	Suitable for surface mounting			
RF:	No wiring required			
DHW & CH ON/OFF periods		3 ON / 3 OFF		
DHW & CH programs		7 days		
Class of protection /	IP30	IP24		
Degree of protection				
Battery back up time & date	10 years minimum	10 years minimum		
Shortest switching period	1 minute	1 minute		

#### **EC Directives:**

European Union Law Directive 2000/84/EC Low Voltage Directive (2006/95/EEC) Electro-Magnetic Compatibility Directive (89/336/EEC) EC Marking Directive (93/68/EEC)

#### STANDARD PACKAGE:

Programmable / RF receiver Remote RF transmitter Screws (x2) Wall Plugs (x2) Instructions Batteries AA Alkaline(x2)



## DIGISTAT ROOM THERMOSTAT GENERAL INFORMATION

#### What is a room thermostat?

A room thermostat simply switches the heating system on and off as necessary. It works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.

Turning a room thermostat to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the design of the heating system, for example, the size of boiler and radiators.

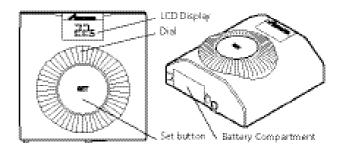
Neither does the setting affect how quickly the room cools down. Turning a room thermostat to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

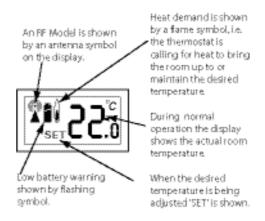
The heating system will not work if a time switch or programmer has switched it off.

The way to set and use your room thermostat is to find the lowest temperature setting that you are comfortable with, and then leave it alone to do its job. The best way to do this is to set the room thermostat to a low temperature, at say 18°C and then turn it up by one degree each day until you are comfortable with the temperature. You won't have to adjust the thermostat further. Any adjustment above this setting will waste energy.

If your heating system is a boiler with radiators, there will usually be only one room thermostat to control the whole house. But you can have different temperatures in individual rooms by installing thermostatic radiator valves (TRVs) on individual radiators. If you don't have TRVs, you should choose a temperature that is reasonable for the whole house. If you do have TRVs, you can choose a slightly higher setting to make sure that even the coldest room is comfortable, then prevent any overheating in other rooms by adjusting the TRVs.

Room thermostats need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. Nearby fires, televisions, wall or table lamps may prevent the thermostat from working properly.





#### **FEATURES**

The Digistat RF room thermostat has the following user settings:

- Required room temperature (temperature setpoint)
- Preset temperature setting Advanced feature
- Minimum & Maximum temperature settings -Advanced feature

#### Simple Setting or Operating

To set the required room temperature

- The display normally shows the current room temperature to within 0.5°C
- To adjust the required temperature, turn the dial clockwise to increase or anti-clockwise to decrease, (1 click = 1°C), the LCD will display the temperature setpoint as it is being adjusted and 'SET' will be displayed. After a few seconds the display will return to normal operation and will display the actual room temperature.

While adjusting the temperature during normal operation, when you reach the maximum or minimum possible setting the display will flash to indicate you cannot adjust the product further.



#### **ADVANCED FEATURES**

## Adjusting the Setpoint using the Preset Temperature Mode

Change the temperature at the press of a button, for example, if you are going out to the shops for an hour you can reduce the temperature to save energy and then when you press the button again on your return the setpoint will return to the previous level.

 To adjust the setpoint to the preset (or Setback) temperature, press the **Set** button during normal operation and the product will go into Preset mode.

#### NOTE:

This feature can be used to quickly adjust the temperature setpoint to a setback temperature for economy operation if for example, "Preset Temperature = 15°C". Or alternatively to a comfort setpoint if "Preset Temperature = 21°C".

 Once the setpoint has been changed to the preset (or setback) temperature by pressing Set the display will show the "Preset Temperature" and SET will be flashing in the display as shown,



**SET** will flash for approximately 5 seconds and during this time the "Preset Temperature" can be altered by rotating the dial.

 The product will remain in the Preset mode. Once 5 seconds have elapsed (since the last dial adjustment) the word SET will stop flashing on the display as shown,

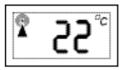


The product is still in the Preset mode.

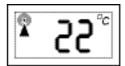
## To cancel the Preset Mode & return to normal operation

You can either,

 If you want to return to your previous setpoint (before you entered the Preset mode) then press the SET button. The Preset mode will be cancelled and the product will return to normal operation and the display will show the current room temperature as shown.

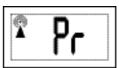


If you want to set a new setpoint, just rotate the dial until your required setpoint is shown on the display. After a couple of seconds the display will change to show the current room temperature as shown.



#### To change the user adjustable settings

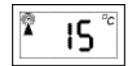
To enter the **User** menu, press and hold the **Set** button for more than 5 but less than 10 seconds the display will show **Pr** (Preset temperature setting) as shown.



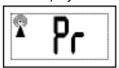
If the dial is turned clockwise one click then HI
 (Maximum temperature setting) will be displayed
 and if turned one more click clockwise then Lo
 (Minimum temperature setting) will be displayed.

#### **Changing the Preset Temperature**

 To adjust the "Preset" temperature enter the user menu as described above, then rotate the dial until Pr is shown, press the set button and the display will show the current Preset setting.



 Rotate the dial clockwise to increase the Preset temperature & anti-clockwise to reduce the Preset temperature. Press the **Set** button to confirm and **Pr** will be displayed.





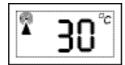
# DIGISTAT ROOM THERMOSTAT ADVANCED SETTING

#### **Changing the Maximum Temperature Setting**

 To adjust the maximum temperature setting enter the user menu as described above, then rotate the dial clockwise until 'HI' is showing.



 Then press the **Set** button, the current setting is shown.

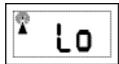


Rotate the dial clockwise to increase the maximum temperature setting (max. 30°C) and anticlockwise to reduce the maximum temperature setting (min. 5°C or min. temp. setting). Press the Set button to confirm, the display will show.

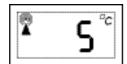


#### **Changing the Minimum Temperature Setting**

 To adjust the minimum temperature setting enter the user menu as described above, then rotate the dial clockwise until Lo Is showing.



 Then press the **Set** button, the current setting is shown.



Rotate the dial clockwise to increase the minimum temperature setting (max. 30°C or max. temp. setting) and anti-clockwise to reduce the minimum temperature setting (min. 5°C). Press the Set button to confirm, the display will show.



When adjusting the settings within the menu, if the maximum or minimum possible setting are reached, the display will flash to indicate you cannot adjust the product further, e.g. you cannot set the Preset higher than the maximum temperature setting.

To return to normal operation, either press the **Set** button for more than 5 seconds or wait for 1 minute and it will return automatically.

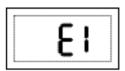
#### **TAMPER PROOFING (All Models)**

To tamper proof the product i.e. prevent unauthorised adjustment of the product set the Min. and Max. temperatures to the same desired value.

#### **FAULT DIAGNOSIS (All Models)**

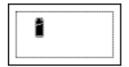
If the display shows E1, the following faults could have occurred:

- Internal temperature sensor has failed. Replace the unit,
- Ambient temperature is outside product operating temperature range - 0°C to 50°C.
   When the ambient temperature is back within the operating range, the unit will function correctly.



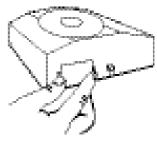
#### **BATTERY REPLACEMENT (All Models)**

- When the batteries are getting low (approx. 30 days battery life remaining) the battery symbol will flash in the display, it is recommended to change the batteries during this period.
- After approximately 30 days, a continuous battery symbol only will be shown in the display and the unit will remain OFF.



Remove the battery compartment by pinching the tabs and withdrawing down. Replace the spent batteries with 2 x AA 1.5V alkaline batteries ensuring correct orientation. Replace the battery compartment pressing fully home.

Remove battery compartment





# DT20RF RECEIVER GENERAL INFORMATION

#### **DT20RF Receiver Programmer**

The Programmer has factory set programs for ON/OFF periods for central heating and hot water pre-heat, which are described on the following pages.

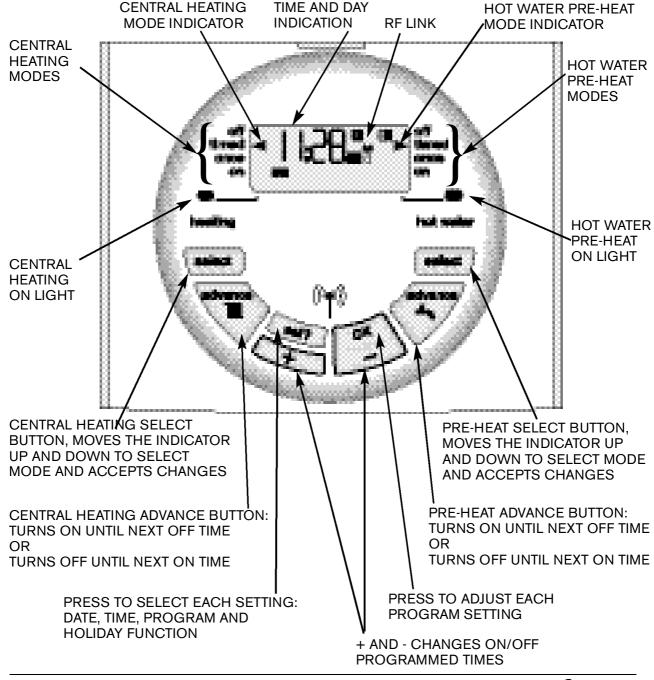
These factory installed settings can be used without any further programming.

This section also details how to program the DT20RF Receiver for new weekday and weekend times to suit your lifestyle requirements.

How to set the clock, time and date.

A holiday function is provided, the number of days of your holiday can be set.

After that set time period the boiler will revert to the normal program.

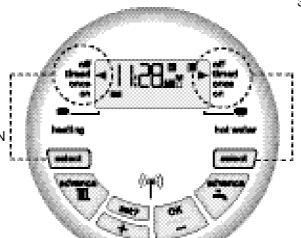




#### DT20RF RECEIVER OPERATING CONTROLS

#### Central heating:

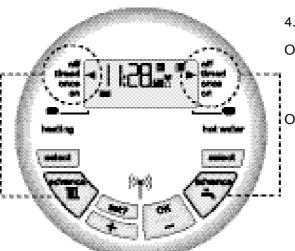
- 1. Press select button to choose
- off =constantly OFF
- timed = up to 3 ON & 3 OFF time periods as program
- **once** = ON from first ON until third OFF time period as program
- constantly ON on =



#### **Hot Water:**

- 3. Press select button to choose
- off =constantly OFF
- timed = up to 3 ONand 3 OFF time periods as program
  - **once** = ON from first ON until third OFF time period as program
- constantly ON

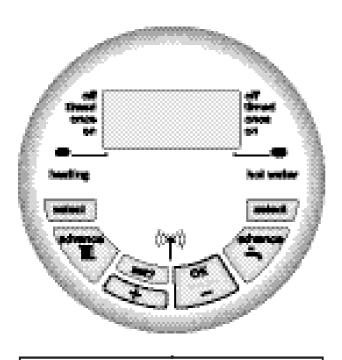
- 2. Press "advance" button:
- ON = heating light on(heating demand stays on until next off time period)
- OFF = heating light off (heating demand stays off until next on time period)



- 4. Press "advance" button:
- ON = hot water pre-heat light on (hot water stays on until next off time period)
- OFF = hot water pre-heat light off (hot water stays off until next on time period)

NOTE: Advance has no effect with constantly on or off is selected on the receiver or when there is no demand from the transmitter.

# DT20RF RECEIVER PRE-PROGRAMMED SETTINGS



	1st	1st	2nd	2nd	3rd	3rd	
	ON	OFF	ON	OFF	ON	OFF	
Central	Heatin	g:					
MON to	FRI						
Time	6:30	8:30	12:00	12:00	16:30	22:30	
SAT & S	SAT & SUN						
Time	7:00	9:00	12:00	12:00	16:00	23:00	
Hot Water:							
MON to FRI							
Time	6:30	8:30	12:00	12:00	16:30	22:30	
SAT & S	SAT & SUN						
Time	7:00	9:00	12:00	12:00	16:00	23:00	

#### **NOTE:**

The ON/OFF periods pre-programmed for Central Heating and Hot Water pre-heat are shown in the table below.

These factory installed settings can be used without any further programming of the receiver.

The time and date are pre-programmed and should not require adjustment.

## If you need to restore the factory pre-set program times then:

Press the + and - buttons together, for two seconds or longer, to restore the default program times to those shown in the table opposite.

#### NOTE:

Two ON/OFF periods can be used instead of three, by setting the second ON/OFF periods to 12:00 as shown in the default program table.

One ON/OFF period can be achieved by setting the second and third ON/OFF periods to the same times.

See DIGISTAT RECEIVER PROGRAMMABLE SETTING on the next page, if changes are required to the clock time or pre-programmed settings.



DT20RF PROGRAMMER

INSTRUCTION MANUAL

8 716 114 478a (08.07)



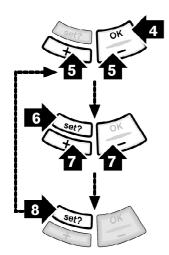
















#### 3rd CH OFF









#### **Setting Central Heating (CH) MON - FRI**

- 1. Press **set?** until SET and PROG? are shown in the display.
- 2. Press **OK** to enter program.
- 3. Press **OK** to select MON-FRI.
- 4. Press **OK** to select CH.

**NOTE:** Speed up the display by holding down the + or - buttons.

- 5. Press + or to change the ON time.
- 6. Press **set?** to set the ON time and select the OFF time.
- 7. Press + or to change the OFF time.
- 8. Press **set?** to set the OFF time and select the next ON time.

Repeat operations 5 to 8 to set the second and third CH ON/OFF times.

**NOTE**: After pressing **set?** for the third CH OFF time the display shows SET MON ...see next page.

#### **Setting Hot Water (HW) MON - FRI**

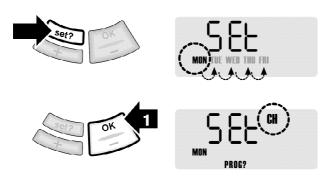
9. Press OK to select the first ON time.

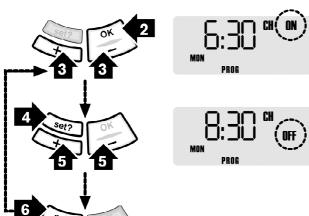
Repeat operations 5 to 8 to set the first, second and third HW ON/OFF times.

**NOTE**: After pressing **set?** for the third HW OFF time the display shows SET MON ...see next page.

#### DT20RF RECEIVER

#### PROGRAMMABLE SETTINGS





#### 3rd CH OFF









#### **Setting individual weekends:**

**NOTE:** If you do not require individual weekday times, then press set? until SET SUN-SAT are displayed and continue on the next page.

If you do not wish to change the setting for the day displayed, then press set? until the first day you want to change is displayed.

#### **Setting Central Heating (CH)** individual weekdays:

- 1. Press OK to select weekday.
- 2. Press OK to select CH.

NOTE: Speed up the display by holding down the + or - buttons.

- 3. Press + or to change the ON time.
- 4. Press set? to set the ON time and select the OFF time.
- 5. Press + or to change the OFF time.
- 6. Press set? to set the OFF time and select the next ON time.

Repeat operations 3 to 6 to set the second and third ON/OFF times.

NOTE: After pressing set? for the third CH OFF time, SET and HW for that weekday are displayed.

#### Setting Hot Water (HW) individual weekdays:

7. Press OK to select the first ON time. Repeat operations 3 to 6 to set the first, second and third HW ON/OFF times.

NOTE: After pressing set? for the third HW OFF time, SET and the next weekday are displayed....after completing the steps above for FRI the display shows SET SAT-SUN.

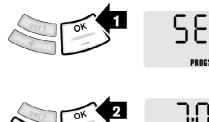
DT20RF PROGRAMMER

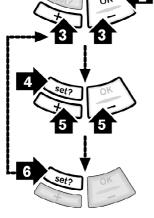
INSTRUCTION MANUAL

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see next page....











#### 3rd CH OFF









#### **Setting Central Heating (CH) SAT - SUN:**

- 1. Press OK to select weekend.
- 2. Press OK to select CH.

**NOTE:** Speed up the display by holding down the + or - buttons.

- 3. Press + or to change the ON time.
- 4. Press **set?** to set the ON time and select the OFF time.
- 5. Press + or to change the OFF time.
- 6. Press **set?** to set the OFF time and select the next ON time.

Repeat operations 3 to 6 to set the second and third ON/OFF times.

**NOTE:** After pressing **set?** for the third CH OFF time, SET and HW for the weekend are displayed.

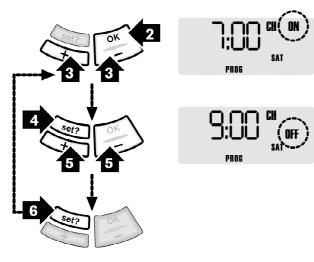
#### **Setting Hot Water (HW) SAT - SUN:**

 Press OK to select the first ON time.
 Repeat operations 3 to 6 to set the first, second and third HW ON/OFF times.

**NOTE:** After pressing **set?** for the third HW OFF time, SET and SAT are displayed....see next page.

**NOTE:** If you do not require individual weekend day times, then press set? until the normal display is seen.





#### 3rd CH OFF

12









#### Setting individual weekend days:

NOTE: If you do not require individual weekend day times, then press set? until the normal display is seen.

If you do not wish to change the settings for SAT, then press set? to move to SUN.

#### Setting Central Heating (CH) individual weekend days:

- 1. Press OK to select the day displayed.
- 2. Press OK to select CH.

NOTE: Speed up the display by holding down the + or - buttons.

- 3. Press + or to change the ON time.
- 4. Press set? to set the ON time and select the OFF time.
- 5. Press + or to change the OFF time.
- 6. Press set? to set the OFF time and select the next ON time.

Repeat operations 3 to 6 to set the second and third ON/OFF times.

NOTE: After pressing set? for the third CH OFF time, SET and HW for that day are displayed.

#### **Setting Hot Water (HW) individual** weekend days:

7. Press OK to select the first ON time.

DT20RF PROGRAMMER

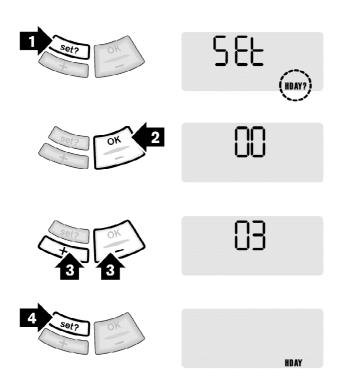
INSTRUCTION MANUAL

8 716 114 478a (08.07)

Repeat operations 3 to 6 to set the first, second and third HW ON/OFF times.

Pressing set? until the normal display is seen.





#### **Setting holidays:**

- 1. Press the **set?** button until SET and HDAY are displayed.
- 2. Press OK and the display shows 00.
- 3. Press + or to set the number of days you require the system to be off.
- 4. Press **set?** then HDAY is shown in the display and no demand for heating will be made from the programmer.

The program will return to normal after the set number of days.

To cancel the holiday setting and return to normal operation, press any button.

**NOTE:** The programmer counts each pass through midnight as a day.

e.g. if you do not want heating from Saturday morning until Tuesday morning, set for three days.

#### DT20RF RECEIVER

#### PROGRAMMABLE SETTINGS

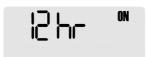
































#### Setting the clock and time

- 1. Press the **set?** button until SET and CLOCK are shown in the display.
- 2. Press OK to display 24hr and ON.
- 3. Press + to switch between 24hr and 12hr display.
- 4. Decide between 24 hour or 12 hour display and press set? to select, now the hours will flash.
- 5. Press + or to set the correct hour.

**NOTE:** Speed up the display by holding down the + or - buttons.

- 6. When the correct hour has been selected, press set? to select, now the minutes will flash.
- 7. Press + or to set the correct minutes.
- 8. When the correct minutes have been set, press **set?** to select that setting.

Now SET and DATE will be displayed.

If the day and date needs resetting, refer to the next page for SETTING THE DATE.

If the day and date are correct, press **set?** to return to the normal display.



























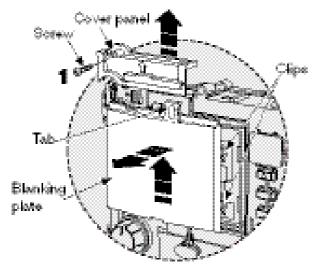


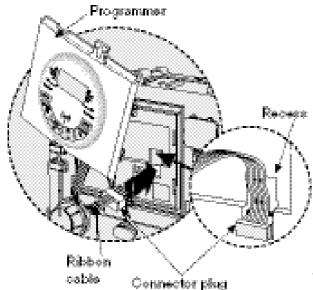


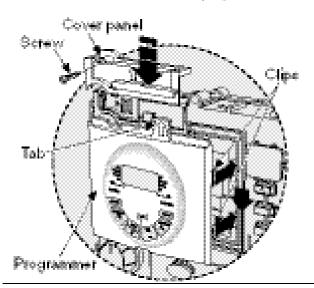
#### Setting the date:

- 1. Press the **set?** button until SET and DATE? are displayed.
- 2. Press the OK button once, the year flashes on the display.
- 3. Press + or to set the correct year, e.g. 07.
- 4. When the correct year has been chosen, press **set?** to select, now the month will flash.
- 5. Press + or to select the correct month, e.g. 08.
- 6. When the correct month has been chosen, press **set?** to select, now the day will flash.
- 7. Press + or to select the correct day, e.g. 16.
- 8. When the correct day has been chosen, press **set?** to select, now dLS will be displayed and ON will flash.
- 9. Press + or to switch between ON or OFF. If you choose ON then the clock will automatically adjust the time for Daylight saving. If you choose OFF then the time will not change to take account of the Daylight Saving time change twice a year.
- 10. Press **set?** twice to return to the normal display.

**NOTE:** dLS = Day Light Savings time









#### **CAUTION:**

ISOLATE THE MAINS ELECTRICITY
SUPPLY BEFORE STARTING ANY WORK
OBSERVE ALL RELEVANT SAFETY
PRECAUTIONS

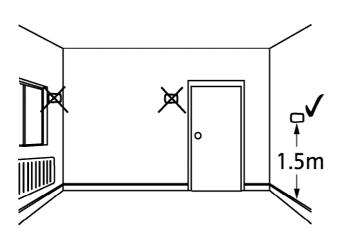
OBSERVE ELECTRO-STATIC DISCHARGE PRECAUTIONS: DO NOT TOUCH THE PCB CIRCUIT

NOTE: THIS ACCESSORY MUST BE FITTED BY A COMPETENT PERSON.
FAILURE TO COMPLY COULD LEAD TO PROSECUTION.

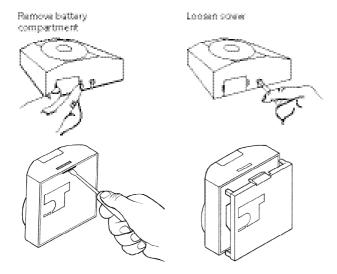
- 1. Remove the boiler outer casing and control panel fascia to gain access to the heatronic control panel.
- 2. Release the securing screws.
- 3. Pull the cover panel up to remove.
- 4. Grip the tab and pull upwards to disengage clips, pull forward to remove blanking plate or existing programmer.
- 5. Align the connector plug pins into socket on the PCB and push fully home.
- 6. Feed the ribbon cable into the recess.
- 7. Align the programmer and locate the clips, push into the slots then down to secure.
- 8. Locate the cover panel in place and secure with the screw.
- 9. Replace fascia cover and outer casing before switching on the electrical supply and boiler.

Switch boiler on when completed.

Refer to the User Instructions section for details of pre-set and setting programs.



Care should be taken to mount the thermostat 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.

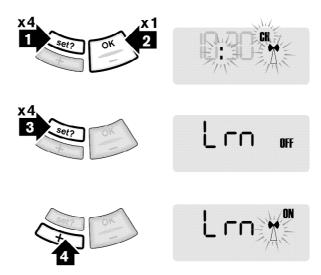


**NOTE:** Refer to the Technical Data page for guidance on Digistat transmitter range.

DT20RF PROGRAMMER

INSTRUCTION MANUAL

8 716 114 478a (08.07)



#### Receiver set up:

After initial start up, the colon, CH and antenna symbols should be flashing on the display.

- 1. Press the **set?** button 4 times.
- 2. Press the OK button once.
- 3. Press the **set?** button 4 times; Lrn and OFF should be displayed.
- 4. Press the + button so the display shows ON and a flashing antenna symbol. The learn mode is now ready to receive a signal from the transmitter during the next two minutes.

#### Transmitter set up:

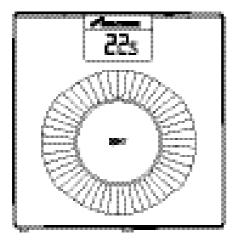
- 1. Take the Digistat Room Thermostat and stand approximately two metres away from the boiler.
- Remove the battery cover and fit the batteries.
   The symbols on the receiver will stop flashing and the display will return to the normal time display.
   This confirms that the radio signal is being sent and received.

The Digistat Room Thermostat is now linked to the receiver on the boiler.

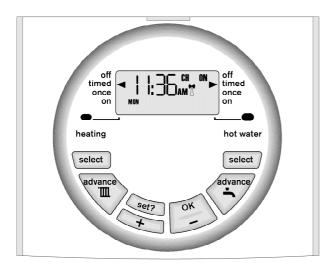
#### DIGISTAT/DT20RF RECEIVER

#### **MAINTENANCE**

#### **Digistat RF Room thermostat** part number 8 716 114 463 0



#### **DT20RF Receiver** part number 8 716 106 669 0



#### Maintenance:

The Digistat RF Room thermostat requires no maintenance.

The outer casing can be wiped clean using a dry cloth. DO NOT use polish or detergents.

These units can not be serviced.

Should the existing units fail to function correctly, check that the:

- ▶ DT20RF Receiver times and program settings are correct.
- ▶ RF signal link is set up (Refer to page 2 for RF signal range details).
- ▶ Digistat RF Room thermostat batteries are the correct type, fitted correctly and are not exhausted.

Fit new batteries if in doubt.

DT20RF PROGRAMMER

INSTRUCTION MANUAL

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#### **CONTACT INFORMATION**

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# OPERATING & INSTALLATION INSTRUCTIONS

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Worcester Bosch Group is a trading name of BBT Thermotechnology UK Ltd.

8 716 114 478a (08.07) 06515042001 Rev a

