



**FP715Si**  
*Electronic 2-Channel Full Programmer for  
Heating and Hot Water with Service Interval Timer*

# FP715Si

*Electronic 2-Channel Full Programmer for Heating & Hot Water with Service Interval Timer*

GB



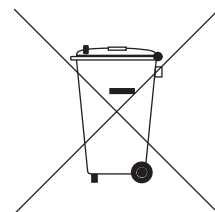
**For a large print version of these instructions please call Marketing on 0845 121 7400.**



Certification Mark

This product complies with the following EC Directives:  
Electro-Magnetic Compatibility Directive.  
(EMC) (2004/108/EC)  
Low Voltage Directive.  
(LVD) (2006/95/EC)

CE



Danfoss can accept no responsibility for possible errors in catalogues, brochures, and other printed material. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

*Thank you for buying a Danfoss product*

**GB**

*Danfoss*

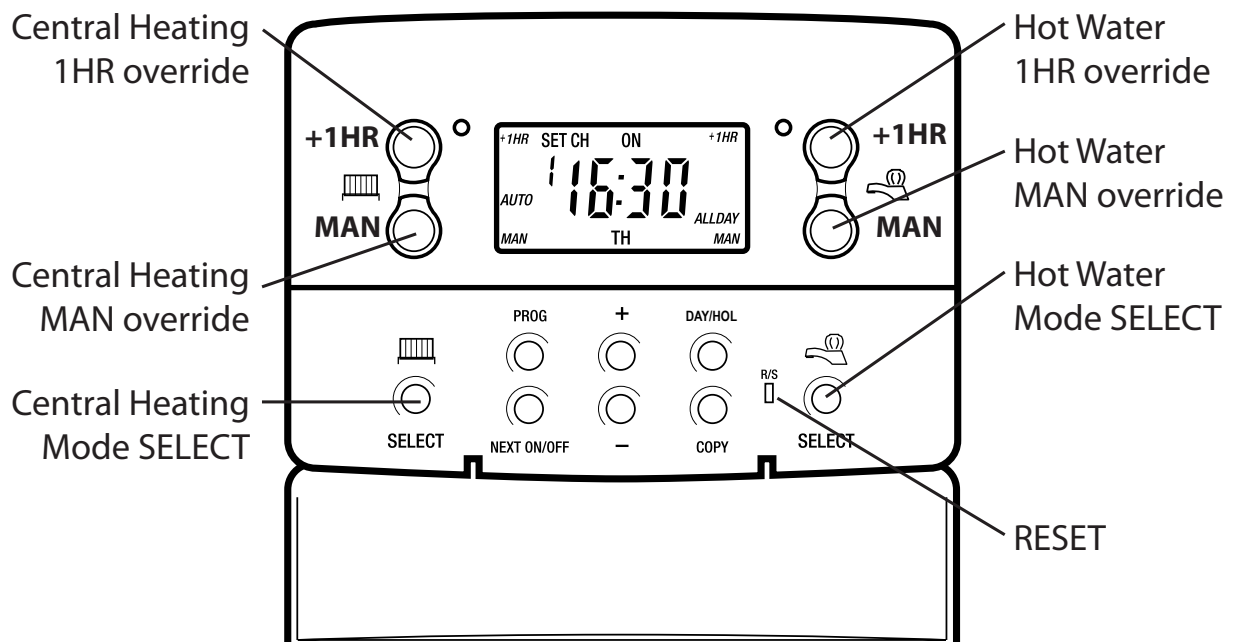
# Index

## 1.0 User Instructions

1.1	Your Programmer.....	6
1.2	Preset Programmes.....	6
1.3	Before you start .....	7
1.4	Choice of 24hr or AM/PM display.....	7
1.5	Setting the Date and Time.....	7
1.6	Accepting the Preset Programmes.....	8
1.7	Before you Change the Preset Programmes .....	9
1.7.1	Programming the Heating in 5/2 Day Mode.....	10
1.7.2	Programming the Heating in 7 Day Mode.....	11
1.7.3	Programming the Heating in 24 Hour Mode.....	12
1.8	Programming your Hot Water .....	13
1.9	Running your Programme .....	14

## 2.0 Advanced

2.1	Temporary Override Buttons.....	15
2.2	Holiday Programme .....	16
2.3	Changing Clocks Forward and Backward .....	17
2.4	Service Interval Timer .....	18
2.5	Making a Full Reset .....	19
2.6	Fault Check List.....	20



# TACMA

THE ASSOCIATION  
OF CONTROLS  
MANUFACTURERS



GB

The text below has been edited and approved by the Plain English Campaign, who has issued a Crystal Mark to be displayed with it.

---

## What is a Programmer?

---

... an explanation for householders.

Programmers allow you to set 'On' and 'Off' time periods. Some models switch the central heating and domestic hot water on and off at the same time, while others allow the domestic hot water and heating to come on and go off at different times.

Set the 'On' and 'Off' time periods to suit your own lifestyle. On some programmers you must also set whether you want the heating and hot water to run continuously, run under the chosen 'On' and 'Off' heating periods, or be permanently off.

The time on the programmer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time.

You may be able to temporarily adjust the heating programme, for example, 'Override', 'Advance' or 'Boost'. These are explained in the manufacturer's instructions.

The heating will not work if the room thermostat has switched the heating off. And, if you have a hot-water cylinder, the water heating will not work if the cylinder thermostat detects that the hot water has reached the correct temperature.

## 1.0 User Instructions

### 1.1 Your Programmer

The FP715 Si allows you to switch your heating and hot water on and off at times that suit you.

GB

Your programmer has had the date and time set up during manufacture and will automatically change between Greenwich Mean Time and British Summer Time.

You can programme up to 3 ON/OFF times per day for the heating and the hot water and the two systems can be operated independently.

### 1.2 Preset Programmes

Your FP715 Si comes ready programmed with a set of operating times which often suit most people.

Event No.	Hot Water and Heating	Mon-Fri	Sat-Sun**
1	1st ON	6:30	7:30
2	1st OFF	8:30	10:00
3*	2nd ON*	12:00*	12:00*
4*	2nd OFF*	12:00*	12:00*
5	3rd ON	17:00	17:00
6	3rd OFF	22:30	22:30

\* Not applicable if unit set to 2 ON/OFF's per day by installer

\*\*Not applicable if unit set to 24 hour mode by installer

**See page 9 for explanations of different settings**

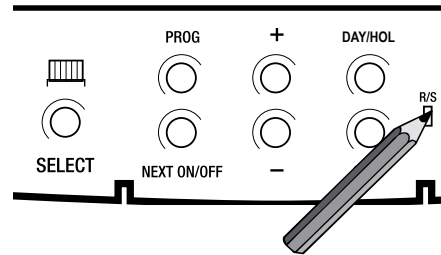
If you want to change any of these settings, you can do so by following the instructions on pages 9-14. First, follow the steps on page 7-8 to set the correct time and date.

### 1.3 Before you start

Open the flap on the front of the clock. Press the **RESET** button using a non-metallic object (e.g. pencil/matchstick) until you hear a click and the 2 red lights on the front of the unit flash once.

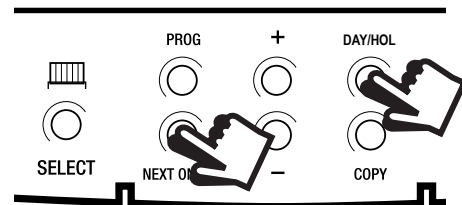
This will stop and restart the electronics, without losing the factory set time and date settings.

To fully reset the unit see page 19.



### 1.4 Choice of 24hr or AM/PM display

Press and hold **DAY/HOL** and **NEXT ON/OFF** for 1.5 seconds to toggle between 24hr clock and AM/PM display, as required.



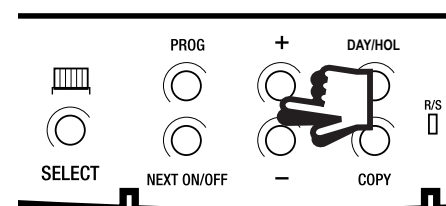
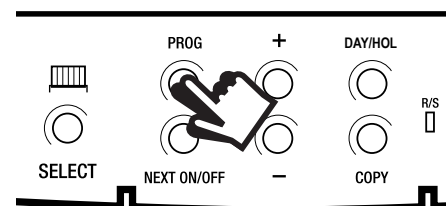
### 1.5 Setting the Date and Time

These settings are made during manufacture and only need to be changed in the unlikely event that the unit has lost the settings.

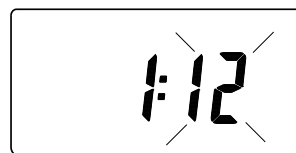
#### Setting the Date

Press and hold **PROG** for 5 seconds to display year.

Use the + or - buttons to set the correct year.



Press **DAY/HOL** to display day and month. Use the + or - buttons to set the correct month (Jan = 1, Feb = 2 etc.).



Press **DAY/HOL** to display day and month. Use the + or - buttons to set day of month.



Press **PROG** to display the time.

The words **SET TIME** will appear at the top of the display and the time will flash on and off.



Use the + or - buttons to set the correct time (press and hold to change in 10 min. increments).

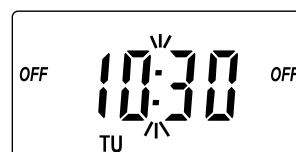
### ***Setting the Day***

The day of the week is set automatically.

## **1.6 Accepting the preset programmes**

---

If you are happy to use the preset programmes on page 6, you don't need to do anything else.



Press the **PROG** button once to return to run mode.



## 1.7 Before you change the preset programmes

Your installer will have set your unit to operate in one of the following modes:

- **5/2 day** - one set of programmes for weekdays and another for weekends (**page 10-11**)
- **7 day** - different settings for each day of the week. (**page 11-12**)
- **24 hour** - one set of programmes for the whole week. (**page 12-13**)

*See INSTALLER SETTING tick box on inside flap label to ascertain which mode your unit is set.*

INSTALLER SETTING	
24 Hour	
5+2 Day	
7 Day	

### ***Please Note***

The unit must be programmed in sequence. ON/OFF times cannot be set out of sequence.

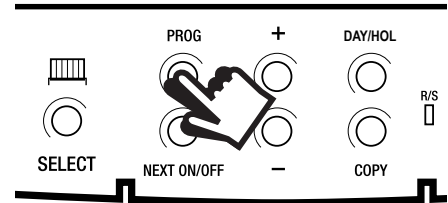
If you want to leave a preset time as it is, simply press **NEXT** to move on to the next setting.

Your installer will have set your unit to programme either 2 or 3 ON/OFFs per day. If your clock has been installed to allow 3 ON/OFFs and you do not wish to use one of the ON/OFF settings, simply programme the ON time to be the same as the OFF time and the setting will not operate.

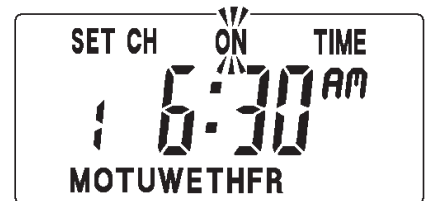
## 1.7.1 Programming the heating in 5/2 day mode

GB

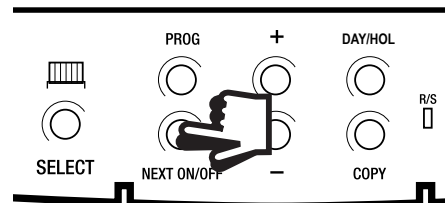
1. Press **PROG** once until **SET CH ON TIME** appears at the top of the display and **MOTUWETHFR** appears at the bottom of the display.



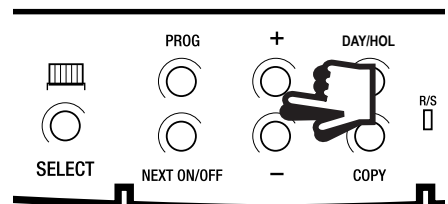
Use the **+** or **-** buttons to set the time you would like your heating to first come on in the morning (Event 1).



2. Press **NEXT ON/OFF** once only.



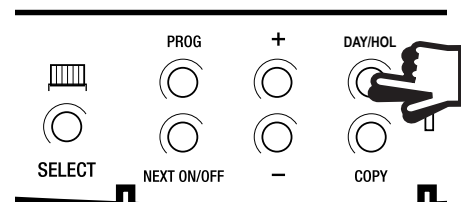
Use the **+** or **-** buttons to set the time you want your heating to go off (Event 2).



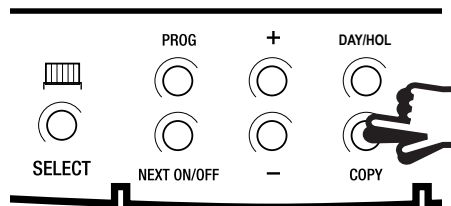
To move to the next setting, i.e. when you would like your heating to come on again (Event 3) press the **NEXT ON/OFF** button again.

3. Continue programming the central heating ON and OFF times for weekday Events 4, 5 & 6 as in Step 2.

4. Press the **DAY/HOL** button once and **SASU** will appear at the bottom of the display.

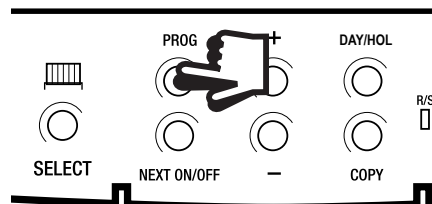


If the same programme is required press the **COPY** button and the previous days programme will be entered.



If a different programme is required repeat steps 2-4.

5. Press the **PROG** button once to enter hot water programming or twice to return to run mode.



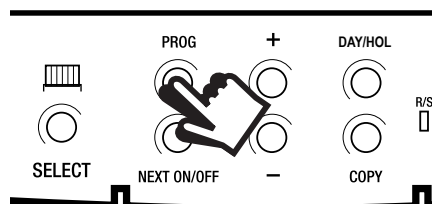
6. **Proceed to page 14.**

**Please Note**

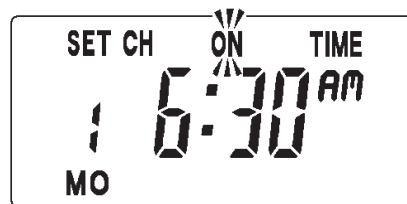
If this setting is made on a weekend day SASU will show in place of MOTUWETHFR.

## 1.7.2 Programming the heating in 7 day mode

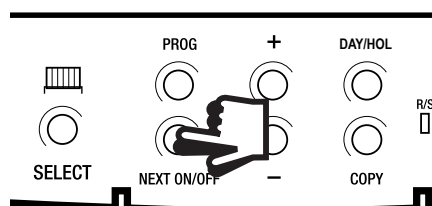
1. Press **PROG** once until **SET CH ON TIME** appears at the top of the display. Note the current day is displayed. Press the **DAY/HOL** button until the required day is displayed.



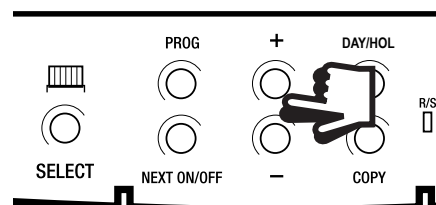
2. Use the **+** or **-** buttons to set the time you want your heating to first come on in the morning (Event 1).



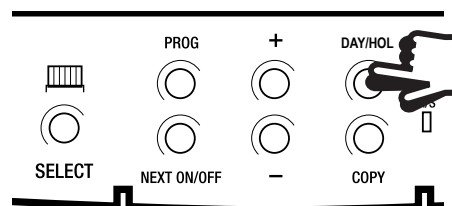
3. Press **NEXT ON/OFF** to move to Event 2.



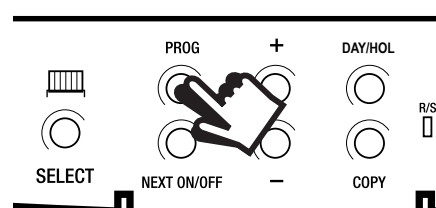
4. Continue programming the central heating **ON** and **OFF** times in this way by using the + or - buttons to set the time you want and pressing the **NEXT ON/OFF** button to move to the next setting.



5. Press **DAY/HOL** button once only. The next day will appear at the bottom of the display. Repeat steps 2-5.



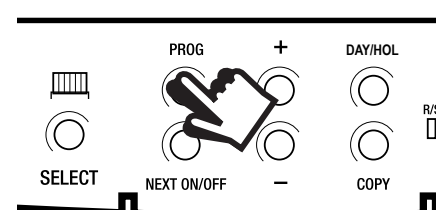
6. Press the **PROG** button twice to return the unit to **RUN** mode (time appears and the colon in the display begins to flash).



7. **Proceed to page 14.**

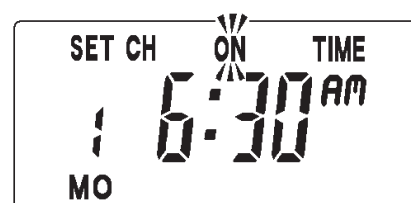
### 1.7.3 Programming the heating in 24 hour mode

1. Press **PROG** once until **SET CH ON TIME** appears at the top of the display.

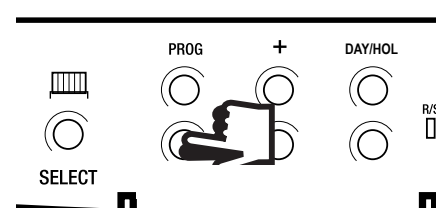


Use the + or - buttons to set the time you want your heating to first come on in the morning (Event 1).

2. Press **NEXT ON/OFF** to move to Event 2.



Continue programming the central heating **ON** and **OFF** times by pressing:

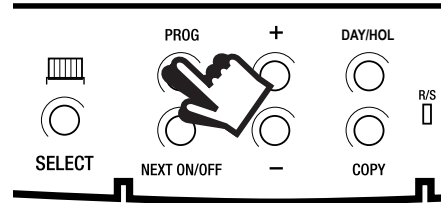
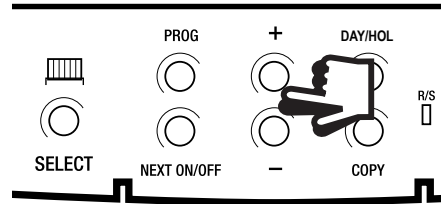


a) **NEXT ON/OFF** button to move to the next setting,

b) **+** or **-** buttons to amend the time.

3. Press the **PROG** button twice to return the unit to **RUN** mode (time appears and colon in the display begins to flash).

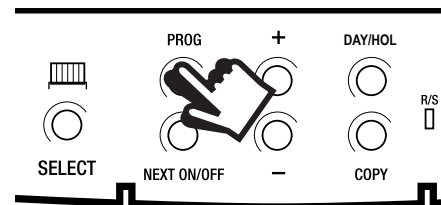
4. **Proceed to page 14.**



GB

## 1.8 Programming your Hot Water

To set the hot water programme press the **PROG** button twice until **SET HW ON TIME** appears on the display.

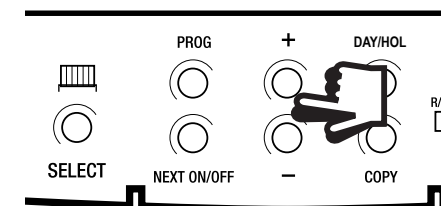


Set the hot water programme in the same way as the heating programme, using:

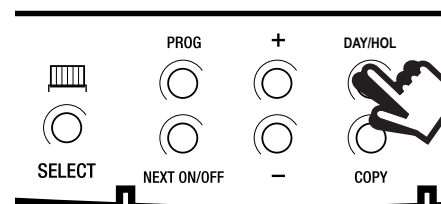
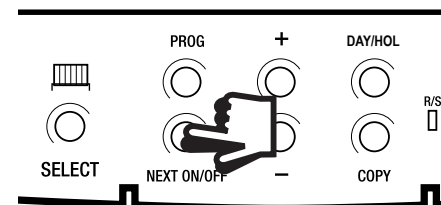


a) **+** and **-** buttons to alter the time,

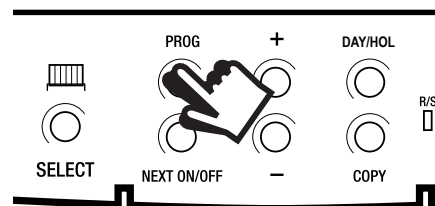
b) Pressing the **NEXT ON/OFF** button to move to the next setting,



c) Pressing **DAY/HOL** to advance through days of the week (7 day mode) or to advance to Saturday and Sunday programming (5/2 day mode) and repeat steps a-c.



Finally press **PROG** once to return the unit to run mode (time appears and colon in the display begins to flash).



GB

## 1.9 Running Your Programme



**To run the central heating programme:**



press the **SELECT** button next to the radiator symbol until **AUTO** is displayed in the LCD.



**To run the hot water programme:**



press the **SELECT** button next to the tap symbol until **AUTO** is displayed in the LCD.

As you press the **SELECT** button the display will change between **ON**, **OFF**, **ALLDAY** and **AUTO**.



- **AUTO** = the heating/hot water will come on and go off at the programmed times.
- **ON** = the heating/hot water will remain on constantly.
- **OFF** = the heating/hot water will not come on.
- **ALLDAY** = the clock will turn the heating/hot water on at the first programmed ON and will leave it on until your last programmed OFF.

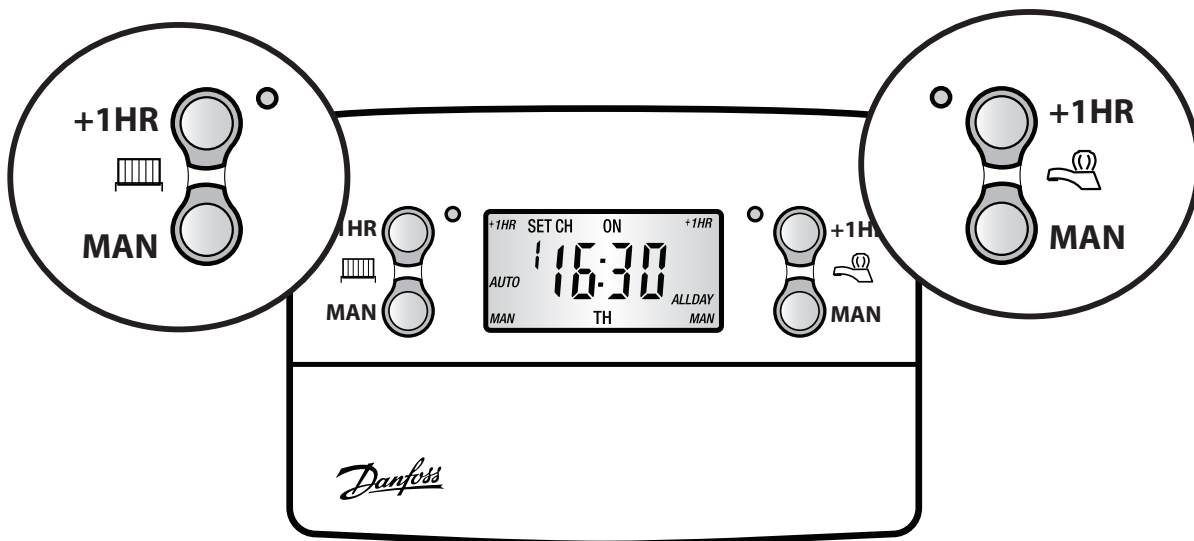
Select the option you require depending on your circumstances, time of year, etc.

## 2.0 Advanced Settings

### 2.1 Temporary Override Buttons

Sometimes you may need to change the way you use your heating temporarily, i.e. due to unusually cold weather. The FP715 Si has two convenient overrides which can be selected without affecting the set programme.

GB



The grey buttons next to the **radiator symbol** are the **Heating** override buttons.



The grey buttons next to the **tap symbol** are the **Hot Water** override buttons.

#### +1HR

Pressing this button when either system is in **AUTO** or **ALLDAY** mode will cause the heating/hot water to remain on for an extra hour. If it is pressed while the programme is **OFF** the heating/hot water will come on immediately for 1 hour then go off again. **+1HR** will be shown in the display.

#### MAN

Pressing this button when either system is in **AUTO** or **ALLDAY** mode will cause the heating/hot water to go **OFF** until the next programmed **ON**, or vice versa. **MAN** will be shown in the display.

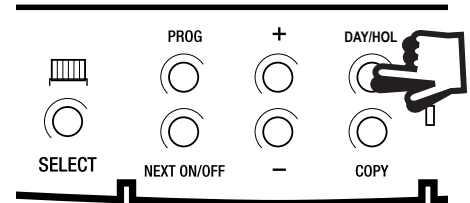
## 2.2 Holiday Programme

To automatically bring the heating back on when returning from holiday the FP715-Si has a built in holiday feature.

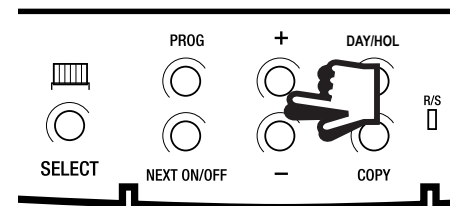
GB

Follow the steps below to set the date that the heating system needs to come back on.

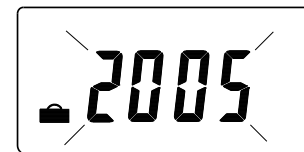
1. Press **DAY/HOL**



2. Use the **+** or **-** buttons to select the year.



3. Press **DAY/HOL**, then use the **+** and **-** buttons to select the month.



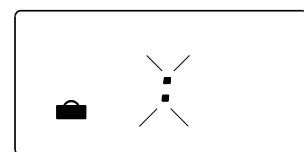
4. Press **DAY/HOL** again, then use the **+** and **-** buttons to select the day in month.



5. Press **DAY/HOL** to turn heating off and enter holiday mode.



To cancel holiday mode press **DAY/HOL**.





## 2.3 Changing Clocks Forward and Backward

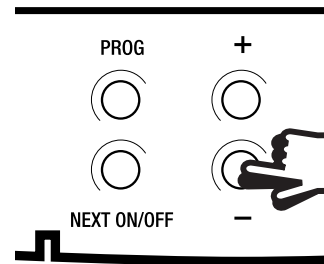
This is handled automatically. Should the installer have turned off Automatic Time Change then follow the instructions below.

Open the flap on the front of the unit to reveal the programming buttons.

GB

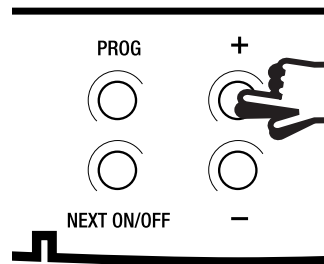
To change from **Summer to Winter**  
(clocks back) -

- **press and hold - button**



To change from **Winter to Summer**  
(clocks forward) -

- **press and hold + button**



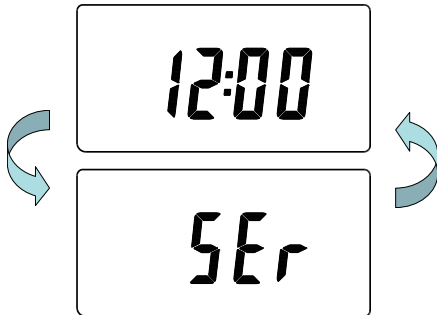
***Take care when making this change for the first time.  
If it is made in the wrong direction the unit will have to be reset  
and any user-settings re-entered.***

***(See pages 7-8 on how to reset the unit and how to set the  
date, time and day).***

## 2.4 Service Interval Timer

---

GB

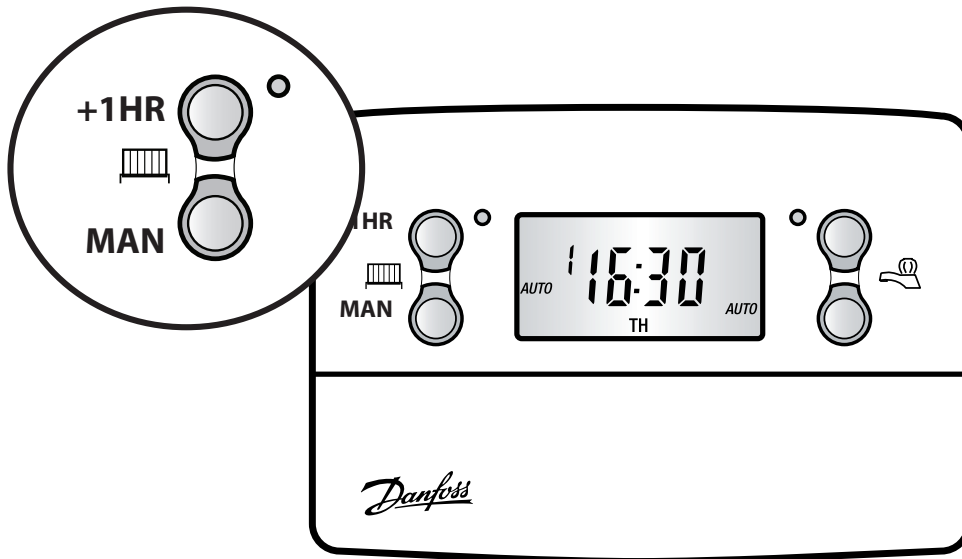
- If the property is owned by a landlord he may, for gas safety reasons, have instructed the installer to set the service interval timer.
- If set, 28 days prior to the boiler service due date, a momentary visual and audible warning will remind you to have the boiler serviced in the next 28 days. This will be repeated each day at noon.A diagram showing a digital display with two lines. The top line shows '12:00' and the bottom line shows '5Er'. Two curved arrows point from the left and right sides of the display towards the center, indicating a warning or alert.
- If the boiler is not serviced within 28 days the daily audible warning will sound for 1 minute at the beginning of each hour and must be cancelled each day by pressing any button on the unit.
- In addition, all overrides and programming buttons will be disabled and the heating and hot water will operate for a set portion of each programmed hour.
- The installer will cancel or reset the service interval timer as part of the boiler service.
- This is a gas safety feature that can only be accessed by an installer.
- When the service interval timer is set the service due date can be viewed in **RUN** mode by pressing and holding the **COPY** button.

## 2.5 Making a Full Reset

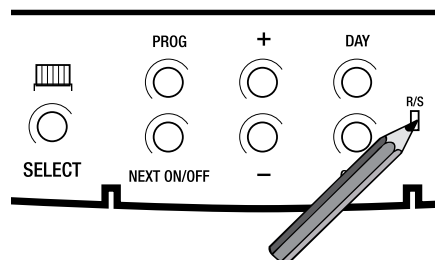
If it is necessary to fully reset the unit, excluding the date and time, follow the instructions below.

1. Press and hold the **+1HR** and **MAN** buttons on the left hand side of the product.

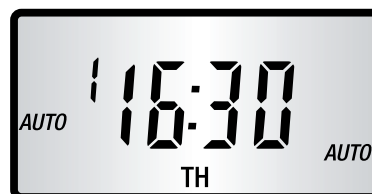
GB



2. Press the **RESET** button and hold for 3 seconds.



3. Release the **RESET** button. The display will change to show **the current time**.



Example

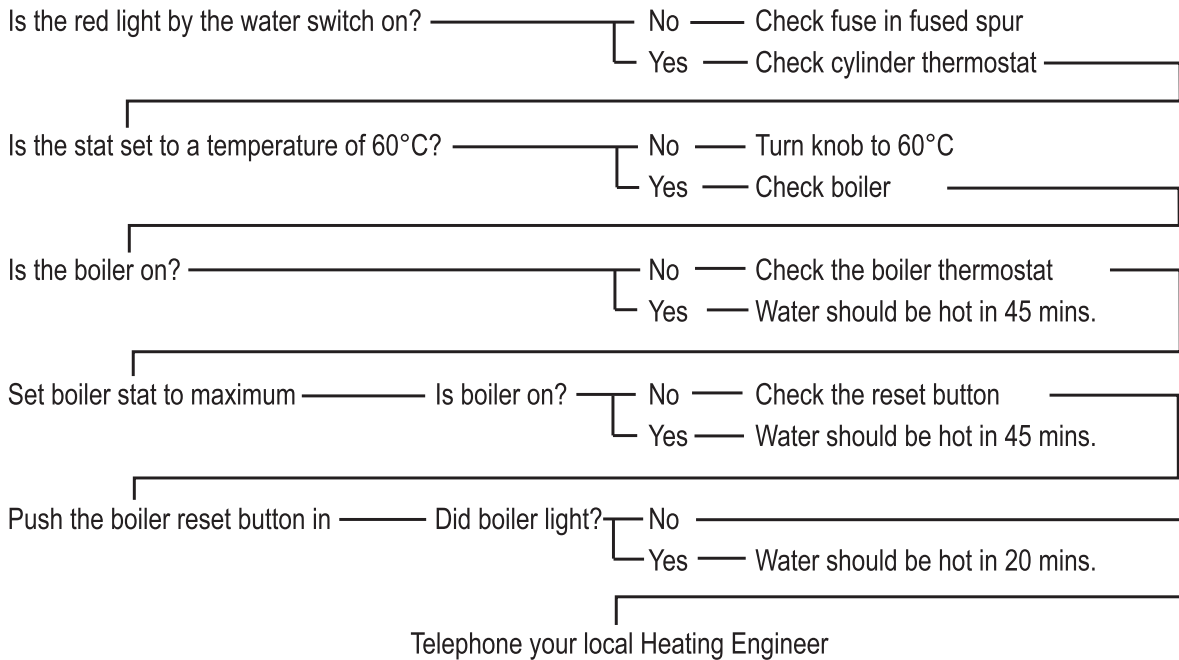
4. Finally, release both the **+1HR** and **MAN** buttons.

The unit is now fully reset and must be re-programmed, see pages 10-14.

## 2.6 Fault Check List

### No Hot Water

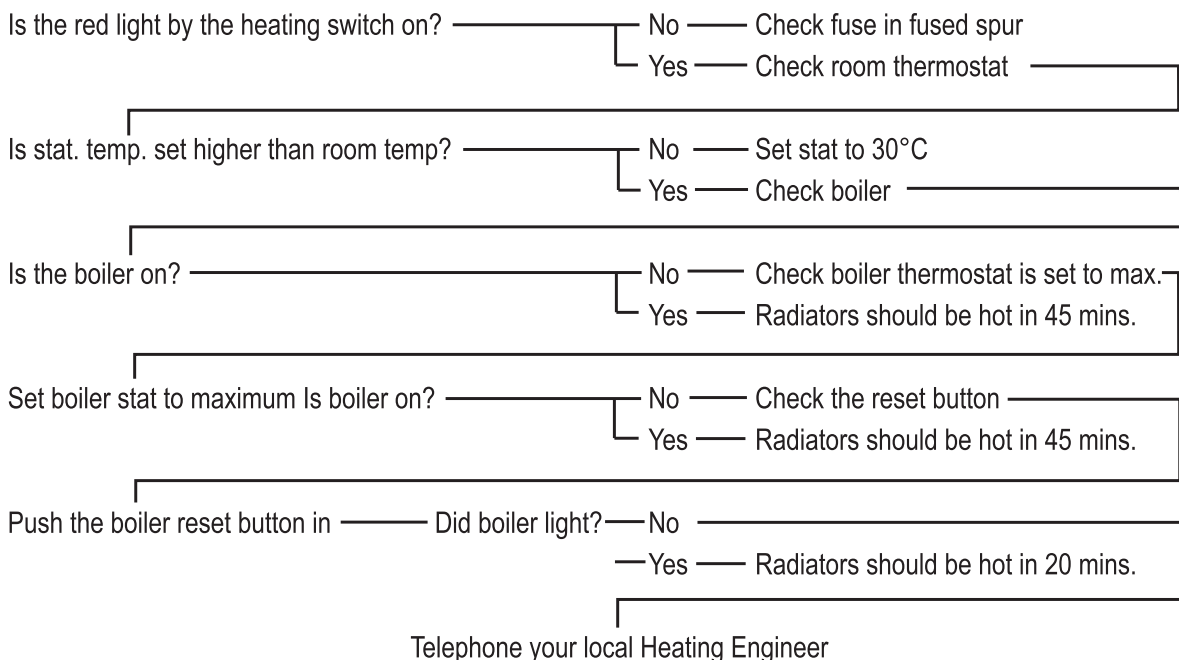
Check FP715 programmer. Turn the heating selector to OFF and the water selector to ON.



After the water has been heated, return the programmer and other controls to the required settings.

### No Heating

Check FP715 programmer. Turn the water selector to OFF and the heating selector to ON.



After the heating has come back on, return the programmer and other controls to the required settings.



**GB**



*Danfoss*

**Danfoss Randall Ltd.**

Amphill Road  
Bedford MK42 9ER

Tel: 0845 1217 400

Fax: 0845 1217 515

Email: [danfosrandall@danfoss.com](mailto:danfosrandall@danfoss.com)

Website: [www.danfoss-randall.co.uk](http://www.danfoss-randall.co.uk)

