

USER GUIDE

FP75 - 7 day programmer with separate output for Heating & Hot Water, which can be set at independent times.

CP75 - 7 day programmer with separate output for Heating & Hot Water.

FP15 - 24 hour programmer with separate output for Heating & Hot Water, which can be set independent times.

CP15 - 24 hour programmer with separate output for Heating & Hot Water.

Features include:

- Simple change 5 day/2 day mode
- Simple change between GMT & BST
- 12 hour or 24 hour clock
- 3 on's/3 off with manual over-rides
- Battery back-up

SELECTING THE OPERATING MODE

Behind the flap are two SELECT buttons, one each for Central Heating (diagram) and Hot Water (diagram)

The operating modes available are:

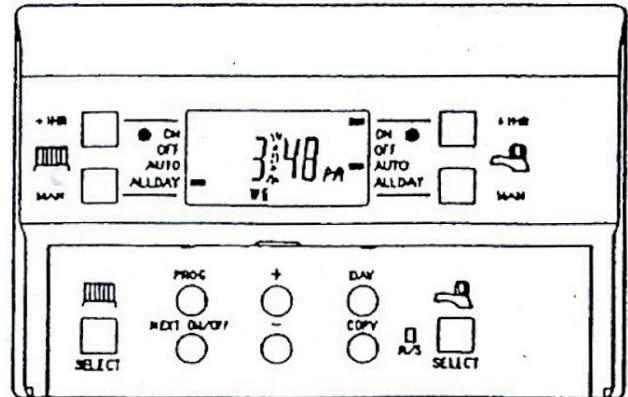
ON	The output is on constantly.
OFF	The output is off constantly. Unless + 1HR is pressed.
AUTO	The output switches on and off to the set programme.
ALLDAY	The output switches on at Setting 1, then stays on until Setting 6.

RESET

Should the unit be disconnected from the mains a small battery symbol will blink on the left hand side of the display. After the second midnight, i.e. between 24 and 48 hours, the display will go blank and the will lose its setting. When mains power is restored it is recommended that the unit be reset by lowering the front flap and using a small non-metallic object, e.g. matchstick, press and release the recessed reset button (marked R/S). This installs the factory pre-set programme and sets the time to 12.00pm and Monday (MO). The outputs will be OFF, (see Fig. 1). Note that the colon between the hours and minutes is blinking. This means the unit is in RUN mode and will switch the Central Heating and Hot Water on and off in accordance with the programme. The colon only blinks in RUN mode.

CHOICE OF 12-HR OR 24-HR CLOCK

At any time during RUN mode the time displayed can be toggled between a 12 hour clock with am/pm indication or a 24 hour clock by pressing and holding both DAY and NEXT ON/OFF button for 1.5 seconds.



G.M.T./B.S.T.

While in RUN mode the change from Greenwich Mean Time to British Summer Time and back is achieved by pressing and holding the + button to add one hour in the Spring or the - button to put the clock back in the Autumn. After the first time this change has been made this feature will only allow the clock to be changed in the correct direction. 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.

SETTING THE CLOCK & PROGRAMMES

1. Pressing PROG once enters SET TIME mode, (see Fig 2) while setting the time, pressing and releasing the + or - button will change the time by one minute; pressing and holding down + or - will change the time quickly in ten minute steps. (This also applies when adjusting the ON/OFF times). Use DAY button to set day. When the time and day are correct, press the PROG button once to start the clock and go to SET ON TIME mode.
2. **CHECKING/ADJUSTING PROGRAMMES:** Pre-set programmes maybe checked using the NEXT ON/OFF button to step through the six available settings, which can be changed if required using the + or - button. The display now shows SET (CH) OFF TIME, with OFF blinking. NOTE: CH appears only on FP75 and FP15 models.
3. **PROGRAMMING NEXT DAY:** Press DAY to advance to next (not 24 hour mode), repeat step 2 each day (7 day mode) or SAT-SUN (5 day mode). ALTERNATIVELY follow COPYING PROGRAMMES instructions below.

4. **COPYING PROGRAMMES:** When a day's settings are as required they may all be copied to the following day with just two button presses. Press DAY to change the day, then press COPY. When used with any model that has been converted to 5 day/2 day operation the programme set for Monday to Friday (MOTUWETHFR on the display) can be copied to the weekend (SASU).
5. **CHECKING/ADJUSTING HOT WATER PROGRAMMES (FP75 & FP15 ONLY):** Press PROG to display SET, HW, ON, TIME, use NEXT ON/OFF button to step through the six available setting, which can be changed if required using the + or - buttons.
6. **RUN MODE:** Having completed the programming for each day, press PROG to go to the run mode

RUN MODE

OPERATION: In RUN mode the unit will automatically switch the Central Heating and Hot Water on and off at the times set. However, useful over-rides are provided which enable the user to make temporary changes to the ON/OFF times without having to re-programme the unit. The facilities offered by the over-rides are detailed on the back cover.

REVIEWING PROGRAMMES FROM THE RUN MODE: Press PROG twice, follow step 2,3,5 & 6 above (Note: step 5 applies only to FP75 and FP15).

MANUAL OVER-RIDES

While in OFF, AUTO or ALLDAY modes the plus one hour (+1HR) button can be used to switch from off to on for just one hour, or to extend an existing on period by one hour. The extra hour is cancelled by pressing the button again, pressing the MAN button, or when an on event is reached.

While in AUTO or ALLDAY modes pressing the manual (MAN) button will switch an output which is on to off, and vice versa. This over-ride will last only until the next programmed switching event is reached, when the automatic programme will resume control, or until the button is pressed again.

When the above over-ride are selected a bar appears in the display against the appropriate legend.

ERROR FREE PRORAMMING

ON/OFF times cannot be set out of sequence. The limits of adjustment are: Setting 1 (first ON) 12.00am to 11.59pm (normally in the morning).

Settings 2 to 6 (first OFF to last OFF) anywhere between the previous setting and 23 hours 59, minutes after Setting 1. The - button stops responding when the previous Setting is reached, but the + button continues to its limit, also changing any later Setting that would have been overlapped. While becoming familiar with Setting Sequence the ON/OFF times may become grouped together. If this should happen use NEXT ON/OFF to select Setting 1, then check/alter each Setting in turn, using + or - until the desired programme is entered.

NOTES ON TYPICAL DISPLAYS (see page 3)

Fig 1. Immediately following a manual **RESET** (RUN mode with colon blinking)

Fig 2. **SET TIME** and **DAY** mode (colon steady, day, hours and minutes blink)

Fig 3. **SET FIRST ON TIME** ('CH' on models FP75 & FP15) (setting number and day shown, 'ON' blinks)

Fig 4. **SET FIRST OFF TIME** ('CH' on models FP75 & FP15) (setting number and day shown, 'OFF' blinks)

Fig 5. **SET LAST OFF IMR AFTER MIDNIGHT** (day when output will switch off blinks)

Fig 6. **SET 'HW' FIRST ON TIME** (models FP75 & FP15 only) (setting number and day shown, 'ON' blinks)

Fig 7. Typical "CH" ALLDAY, "HW" AUTO programme with "HW" +1 HOUR selected.



When programming 7 day models, FP75 & CP75, the day being set appears in the display (see typical displays). With 24 hour models, FP15 & CP15, the day only appears in SET TIME mode. When models are being programmed in 5 day/2day mode then the days will show as MOTUWETHFR of SASU. Should the unit be disconnected from the mains a small battery symbol will blink on the left hand side of the display.

FACTORY PRE-SET PROGRAMME

The following ON/OFF times are programmed at the factory and are re-instated by pressing the recessed R/S button behind the flap.

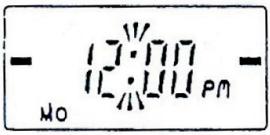
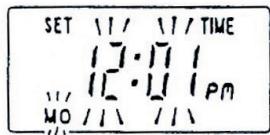
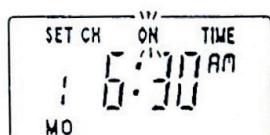
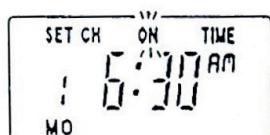
Every day for 24 hour control and Monday to Friday for Weekday/Weekend & 7 day.		
Setting	ON/OFF	Time
1	ON	6:30AM
2	OFF	8:30AM
3	ON	12:00PM
4	OFF	12:00PM
5	ON	5:00PM
6	OFF	10:30PM

Saturday and Sunday for Weekday/Weekend & 7 day control.		
Setting	ON/OFF	Time
1	ON	7:30AM
2	OFF	10:00AM
3	ON	12:00PM
4	OFF	12:00PM
5	ON	5:00PM
6	OFF	10:30PM

Sequence of button presses whilst adjusting time, day and programme setting
Read the section 'Error free programming' first.

Press and release + or - to change the time by one minute.

Press and hold down + or - to change the time quickly.

FP75 FP15		CP75 CP15		BUTTON SEQUENCE		ACTION ONLY THE STEPS SHOWN AGAINST A SHADED BOX MAY BE CARRIED OUT	TYPICAL DISPLAYS - CH & HW only appear on FP models		
7 DAY & 5/2 DAY	24 HOUR	7 DAY & 5/2 DAY	24 HOUR	STEP	PRESS	STARTING FROM RUN MODE, Fig. 1 - Colon blinking			
				1	PROG	Go to SET CLOCK mode, Fig. 2			
				2	DAY	Select day			
				3	+ or -	Adjust time			
				4	PROG	Start clock and display ON/OFF times			
				5	NEXT ON/OFF	Select the ON/OFF setting to check / adjust, Figs. 3, 4 & 5			
				6	+ or -	Adjust time			
				Repeat steps 5 & 6 until all Settings are as required. Steps 7 & 8 only occur with models FP75 & CP75; or FP15 & CP15 when in 5/2 day mode.					
				7	DAY	Select next day - go to step 5 or 8			
				8	COPY	Use previous day's settings			
				Steps 9 to 13 only occur with models FP75 & FP15, which can have different ON/OFF times for Hot Water. If model CP75 or CP15 is being programmed go to step 14.					
				9	PROG	Display Hot Water times			
				10	NEXT ON/OFF	Select the ON/OFF setting to check / adjust, Figs. 3, 4 & 5			
				11	+ or -	Adjust time			
				12	DAY	Select next day, (7 day or 5/2 day modes)			
				13	COPY	Use previous day's settings			
				Repeat 9 to 11 (or 13) until all HW Settings are as req'd.					
				14	PROG	Return to RUN mode - colon blinks			



Danfoss Randall can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss Randall reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made subsequent changes being necessary in specifications already agreed.

Danfoss Randall Limited
 Ampthill Road
 Bedford MK42 9ER.
 Telephone: 0845 1217 400
 Fax: 0845 1217 515

Email: danfossrandall@danfoss.com
 Website: www.danfoss-randall.co.uk

