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System Operation

Time clock

From observation of the time clock you will notice that there is an hinged flap on the lower half of the clock .When opened you will see a selector switch on the left which has 3 positions, Set Time, Run, Set Program, the first thing to be set is the time.

Adjusting the time

1:- Slide the selector switch to the left and you will notice that the year (10) flashes, you can then use the plus and minus button to alter this, when you've done this then press the "OK" button , then the Month starts to flash, you can change this as before using the Plus or minus buttons , when you press OK the day will flash, then the hours and then the minutes

You should also note that the time clock is mains powered and also has a backup battery , therefore if the mains goes off then you shouldn't loose the time settings, You should also note that the time automatically changes for daylight saving.

When you're happy with the time settings then slide the selector switch back to the run position.

Setting the program for Hot Water

The time clock allows for 3 on / off periods per day Monday to Friday (same settings per day) and then allows 3 on / off periods per for Saturday and Sunday.

In order to change the settings slide the selector switch to the right to Program set

P1

This is program time 1 for zone 1 (Zone 1 is your hot Water , Zone 2 downstairs heating zone 3 upstairs heating) you will notice flashing on the left the first on time , we have this set at 6.00 , press O.K, The first Off time will now flash, we have this set for 7.00 (one hour is usually sufficient to heat the hot water cylinder , however if the water in the cylinder heats up before this period then the thermostat on the side of the cylinder (set at 60 Degrees) will override the time clock and switch the boiler off.

When you press OK you will be then advanced onto P2 (second program time) and you will see that the second start time will flash. We have this set at 12.00 (we don't really need the boiler on at this time but the minimum time period allowed is 10 minutes. Press O.K P3 will then be displayed and the 3rd start time will flash, we have this set for 16.30 press O.k and off at 17.00

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Press OK, P1 will now be displayed but you will note that this is for Saturday and Sunday. In order to save these settings I usually suggest sliding the selector switch back to Run mode. You now have entered all the of / Off time periods for the Hot Water

Setting the program for Central Heating

Again as before Slide the selector switch to the right but now press the button “Zone 2 Select” and enter the 3 on / off periods for each day (Morning afternoon and night) and then the same for the weekend , when you’ve finished then slide the selector switch back to the run position.

Now before you close up the flap you use the selector switch the mode of control that you want for each zone . If you look under each zone you will notice that there are 5 different selections

OFF, 1,2,3,ON

- Off :-Means the zone is permanently off 24 / 7
- 1 :-Is an all day setting (which means from the start of the first on time to the end of the last off time
- 2 :-Means the zone will be switched on both morning and evening (the afternoon time will be ignored) this is the most common setting for most people
- 3 :-Means the zone will be turned on Morning, afternoon and evening
- ON :-Means on permanently 24 / 7

Frost Protection

There is also frost protection built into the time clock, you will notice on the top Right hand side of the screen that it is displaying the room temperature. If the room temperature drops below a preset temperature then both zones will switch on until such time as the temperature has risen again.

Adjustment of frost protection temperature

If you press and hold the Plus and minus buttons together for 5 Seconds then the only thing that will be displayed on the screen is the frost protection temperature (I have this set at 10 Degrees but you can adjust it up or down by using the plus or minus buttons). The big advantage of this function is that it allows you to switch off your zones in wintertime if you are away and then only if the weather gets really cold will your heating come on.

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Holiday mode

If you're leaving your house to go away for a few days then you can use the holiday mode to switch off the heat while you're away. In order to do this press "Holiday" then use the Plus button to increment the date to the day before you are coming back, this means that when you do come back that you are coming back to a warm house, (This function works quite well with the frost protection function because if the house gets too cold while your away then it will automatically switch until the temperature is risen again. In order to cancel Holiday Mode just press the O.k button

Boost Function

You can use the boost button for either zone to boost heating for either 1, 2 or 3 hours , pressing it once for one hour , twice for 2 hours or 3 times for 3 hours, but do notice when you press the boost button first there is a delay before it switches on , this is because it is waiting to see if you are going to press the button once, twice or 3 times, to cancel the boost just press the boost button again.

Thermostats

The first thing that its important to note is that the thermostats will always override the time clock, if the time clock is programmed to be on for a 4 hour period, if the room (or the temperature in the hot water cylinder) gets up to temperature the zone will be turned off until such time as the temperature drops again.

Wireless Room stats

The Wireless room thermostats have numerous functions but for simplicity sake the only function that we are using is manual mode. This if you look very carefully is indicated on the display as the finger symbol, if it is not displayed then rotate the dial until such time as it is.

The only other thing of relevance on the display is the Actual room temperature, however if you want to change the preset room temperature then simply press the up or down arrow key. The preset temperature is displayed when its flashing. The usual setpoint for living room areas is 21 Degrees. However feel free to adjust this to your own liking.

TRV's

Only when you are content with the temperature in your lining room areas should you then adjust the temperature on the TRV in your bedroom, usually sleeping areas are most comfortable at 18 Degrees (TRV perhaps adjusted down to 3) You should also note that when the room does get up to temperature that the valve will physically close and the radiator will possible even go cold and will not re-open until such time as the room temperature drops again

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Oil Boiler

If your system is oil then it has been fully tested and commissioned and all the relevant data recorded in the Boiler passport book, there were 3 copies of this information one has been given to the client, The second is retained by the contractor (Churchfield) and the 3rd is to be returned to the manufacturer to form part of the warranty agreement. You should also note that your boiler runs on Kerosene, gas oil if used over time will soot up the boiler and drastically reduce its efficiency

Boiler Thermostat

There is a boiler thermostat situated on the top right Corner of the Boiler, we usually recommend that this is set at about 75% of its full range.

Gas Boilers

If your system is gas, then it has also been fully tested and commissioned and all relevant data has been recorded in the user instruction manual (*please retains this booklet for servicing and reference and ensure that the details are logged each time the boiler is serviced.*) A certificate of compliance has also been provided stating that your gas system has been fully tested and complies with the Irish standard IS 813.

Immersion Heaters

The Hot water cylinders are now also fitted with timers to the Immersion, but this really should only be used if the boiler is out of service as it is by far the most expensive means of heating.