

## SETTING UP YOUR Devireg™540 Programmable Thermostat



Operation	Factory Pre-set		Range
Temp Display	°C	Centigrade	°C or °F
Sensor	rFS	Room & Floor	r S (Room only) : FS (Floor only)
Max. Floor Temp	Mt	+ 45°C	+20°C to +50°C
Offset	OFFS	0.0°C	-5.5°C to +5.5°C
Savings Set-Back	LO	- 5°C	-1°C to -30°C
Weekday	1	1	1 to 7 (eg 1=Mon, 7= Sunday)
Clock format	24	Hrs	24 Hr clock or 12 Hr (am/pm)
Time	Not set		
Timer Settings	Not set		Up to 336 per week

Recommended Floor Maximums	
Tiles on Chipboard	27°C
Carpet/Vinyl on Chipboard	35°C
Wooden Floors	27°C
Other (concrete, FLC)	45°C

Devi recommends a Floor Sensor ALWAYS be fitted

Before setting your Devireg™540 -

- **Savings Set-Back** - When in a "Not Heating" period, the Devireg™540 does not actually "switch off" as such. The Thermostat follows the "Savings" Set-Back temperature you select. If the Savings Set-Back temperature is sufficiently low enough, then to all intents and purposes the Thermostat is "off" - it will not provide heating until the next scheduled Heating ON period.

*Example:* If you have set your (COMFORT) Heating Temperature to 25°C and the LO (SET-BACK or SAVINGS temp) is set to -15°C, then when your Devireg™540 has finished the COMFORT heating period, the heating will switch off and the temperature will start to fall but not be allowed to go below 10°C in this example (25°C - 15°C). The Devireg™540 would then keep the Floor (or Room) at 10°C. Since it is unlikely that the Floor (or Room) temperature will fall to this level, the Devireg™540 will to all intents and purposes, be "Off".

So you can see that you can set the thermostat to effectively be "OFF" or to maintain a lower floor (or room) temperature - in other words, a SAVINGS temperature.

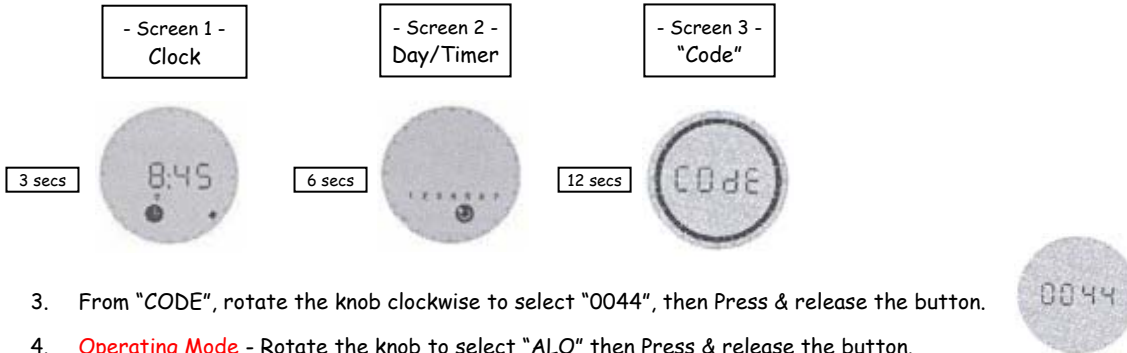
You now need to Activate & set your Devireg™540 to your preferred settings.

**Note:** when connected to the Power supply for the first time, your Devireg™540 defaults to the factory pre-sets and will be display the word CODE.

## To Activate your Devireg™540 or To Make Changes to the Setup

Please Note: If during the set-up process, a screen selection remains unchanged for 1 minute, the devireg™540 will exit programming without storing any changed values.

- When connected to the Supply for the first time, your Thermostat will display the word *CODE* - proceed from Step 3 below
- If the Thermostat display is other than '*CODE*', it has already been setup. To make changes, access *CODE* by pressing and holding the button for approx 12 secs. The display will move through the *CLOCK* screen (after 3 secs), the *DAY/TIMER* programme screen (further 3 secs), then *CODE* after 12 secs in total - illustrated below.



- From "*CODE*", rotate the knob clockwise to select "*0044*", then Press & release the button.
- Operating Mode** - Rotate the knob to select "*ALO*" then Press & release the button.
- Display Temperature** - Rotate to select °C or °F display. Press & release the button.
- Sensing type** - Rotate to select FS = Floor ( r S = Room & r F S = Floor & Room). Press & release the button.
- Maximum Temperature (Mt)** - generally 35°C for Tiles; 27°C for Wood or Vinyl or Tiles on Chipboard  
(Note: Wood surfaces must not exceed 27°C - see maximums recommended by your Flooring Supplier/Contractor to prevent glues softening & wood warping. NEVER operate Underfloor Heating on or under a wood floor WITHOUT INCLUDING a floor sensor.  
Rotate to select your setting, then Press & release the button.

If you have selected "r S" or "rFS" under Sensing type (Step 6 above), you will now see -

- Offset - OFFS** - generally ignore this setting - it allows you to "offset" the Devireg™540's display temperature to make it "match" another Room thermometer. If required, make your selection then, Press & release the button.
- Savings Temperature - LO** - Rotate to select how much lower you wish the Floor (or Room) temperature to be when the Thermostat is Not Heating. When your Thermostat is NOT HEATING, we normally assume that it is OFF. In fact with your Devireg™540 Thermostat, you select the temperature you want the Floor (Room) to not fall below. For example, if you set your COMFORT temp to 24°C and you do not require any heating when finished with the COMFORT period, choose a Set-back of say -15°C. Your floor will then need to fall to 9°C (24 - 15) before the heating will come on to keep the floor at 9°C. Rotate to make your selection, then Press & release the button.
- 12 or 24 hr clock format**  
Rotate to make your selection, then Press & release the button.
- Your Devireg™540 Thermostat is now Activated and Set-Up to your requirements.

*To change any of your settings* - repeat the above from Step 2

### Setting /Changing the Clock

- Push and Hold the button for approx 3 secs. and you will get the display showing at right. Release the button.
- Now turn the button (either way) to select the current Day number. Continue rotating the button past 0.00 to adjust the Day number to match the particular day.  
The numbers are not day specific. We suggest 1 = Monday thru to 7 = Sunday.
- When the Day number is selected, set the current time and push the button to save your settings.



## Setting the Timer Programming

You are setting the times the heating is to Start and Stop

1. Press & Hold the button for approx 6 secs (2 screen changes will happen - see page 2). First the *CLOCK* screen will appear, then the *TIMER PROGRAMME* screen will appear. Release the button.
2. Now, turn the button to select the Weekday number. (1 = Mon, 5 = Fri etc). Press & release the Button. Now turn the button to the Time you wish your first *COMFORT* heat to be ready - say 6:00am. Push the button. Carefully turn the button to give the period you want the heating *ON* - say until 7:30am. A line of black dots on the display shows the selected *ON* period. Push the button. Now rotate the button until the next *COMFORT* heat period is reached - say 8:30pm. Push the button. Carefully turn the button to give the next period you want your heating *ON* - say until 10:30pm. Push the button. Now rotate the button past 0.00 and start the setting for the next day - the Day number will have advanced by 1.
3. Continue this process until all days are set. (NOTE: You can not "copy" from Day to Day, each Day must be set individually)
4. Now press and hold the button for approx 3 secs and your settings will be saved. The display will return to normal.



Timer Programme Screen

That's it, Your Devireg™540 is now set.

To alter Timer program steps - Re-Enter the above process, select your Day, follow as above and the "old" values will be over-written or "Rubbed out"



The picture at left, illustrates the appearance for a Timer setting heating *ON* from 6.00am to 7:30am and later from 15:30pm to 22:30pm on Day 1

## To Swap between MANUAL & TIMER modes

Simply push and release the button. The Devireg™540 will toggle between the two formats - illustrated below.

Screen Appearance when in **TIMER** mode



- The Clock symbol will show.
- The sold ring line indicates *COMFORT* heat period(s).
- The clear area represents *SAVINGS* heat period(s)
- The pulsing "block" indicates the current Time
- For **FS**, the centre number will be 1.0 to 10.0 - see Table 1 for details

Screen Appearance when in **MANUAL** mode



- The Complete solid ring indicates *COMFORT* heat is permanently *ON*
- For **FS**, the centre number will be 1.0 to 10.0 - see Table 1 below for details.

## Setting the Temperature

Rotate the button to select your preferred temperature.

- **Floor or Floor & Room** sensing - the centre Display numbers on the Screen read in °C or °F
- **Room only** sensing - the display is a number from 1 to 10 - see Table at right.

Approx Temp conversion for Floor Sensing only										
Level	1	2	3	4	5	6	4	8	9	10
°C	5	10	15	20	25	30	35	40	45	50

Table 1

## To Turn your Devireg™540 OFF

Select Manual Mode (see above) & rotate the button to the left (anticlockwise) until the display reads 0.0°C or 1.0 with the Frost symbol showing. Continue to rapidly rotate the knob anticlockwise and the word *OFF* will appear. Your Devireg™540 will now remain *OFF*.

## To Turn your Devireg™540 ON

Either,

from the *OFF* screen, rotate the button clockwise and select your preferred *MANUAL* heating level (refer to Table 1 above). *Manual* & *Timer* heating are now both *ON*. Press the button once to toggle between *MANUAL* & *TIMER* modes.

or

leave the *MANUAL* heating set to *OFF*, press the Button once, *TIMER* heating is now *ON*. Press the button once more, the Thermostat is *OFF*. From this arrangement, you can toggle between *OFF* & *TIMER* heating settings with just one push of the button.