

# HabiStat


## Dimming Thermostat Day & Night + Timers

### FUNCTIONS & OPERATING INSTRUCTIONS



Digital Dimming Thermostat with different day and night temperatures + 2 Timers. Maximum load 600 watts. Comes with preset settings of 30°C for the day and 20°C for the night. All you need to do is set the clock to the correct time zone.

Plug your heater into socket marked I and your lights or spray system into socket II. Locate the probe in the position where temperature is to be measured. Press the **SET** button and hold for 3 seconds. This puts the unit into SET mode. Use the **Λ V** buttons to change parameters and then press **SET** to save and move onto the next setting. **Full instructions overleaf.** If no buttons are pressed for 15 seconds the unit will return to display mode. The unit has a battery backup to keep settings if power is switched off however the unit must be continuously left on for 48hrs when first used to charge the battery fully.

**Heating.** Suitable for all heaters, especially spot lamps, and will provide a continual temperature rather than a hot / cold cycle. No minimum load is required but the maximum is 600 watts. Looks at the temperature set and what it needs to achieve. Continually feeds back data on rate of change and what it needs to get to, in order not to overshoot set temperature.

Ensure adequate time is allowed from setting up to stabilise and maintain the set temperature. Monitor the power meter (described below) to see what the heater is doing. When heater is being powered as well as the power meter the  and HEAT will flash.

**Time.** Real time is continually displayed in top left corner of display.


**Separate setting of day time temperature and night time temperature.** The day temperature and night temperature are both set on the internal clock. No light sensors or separate timers are needed. When on the day time the  and DAY TEMP flash. When on the night time the  and NIGHT TEMP flash. Temperature range for each is between 0°C and 50°C. Please remember that the temperature can only be achieved if the heater is large enough and the night temperature cannot drop any lower than the room ambient temperature regardless of what the settings on the thermostat are.

**Revolutionary Power Meter.** This continually gives a percentage display of amount of power being provided to the heater. It is very useful in diagnosing problems and to establish if heaters are too large or too small.

For maximum efficiency and safety the heater should run close to full power at the maximum temperature it is required to achieve. There should be some extra capacity to accommodate cooler ambient room temperatures in winter but shouldn't be so big as to rapidly overheat your cage in the event of a thermostat failure. We would recommend a heater that, when established runs at around 80% for the maximum day set temperature.

If your power meter indicates 99% and the temperature remains too low then the heater needs to be bigger.

If your power meter is indicating 20% -60% then the heater is too big for the temperature required in the size of enclosure. Replace heater with a smaller one.



**Over temperature alarm & safety feature.** This can be set to be activated between 0.1°C and 5°C over or under the set temperature. It will warn you with an audible sound and a flashing  and will display OVER TEMPERATURE ALARM.

Don't forget that if you have a large difference between your day temperature and night temperature the alarm may well sound to warn you that the temperature is out of set parameters. If this continues alarm parameters can either be increased or function turned off. It will stop warning you when the temperature gets back within the parameters set.

It can be temporarily muted by pressing the set button once or can be turned permanently off by the following routine.

If **Λ** and **V** arrows are both held down together for more than 5 seconds, display will show AL. This is the alarm function and in ON mode will alert if the OVER TEMPERATURE ALARM is activated. If when in AL mode and **Λ** or **V** arrow is pressed, display will show NO. If SET is pressed then this will disable the alarm function until turned back on by the above routine. This routine will stop audible alarm however the visible warning will remain.

**Timer 1 & Timer 2.** This controls the output on socket II. It can be used to turn a separate output in the form of fluorescent lighting, spray bar or separate light on and off twice in a 24 hour period. Most common use is to turn fluorescent lights on and off automatically.

Flashing 1 icon  will indicate timer 1 period is active. Flashing 2 icon  will indicate timer 2 period is active.

If periods overlap both icons may flash together.

**Upper and lower setting limit.** Under normal circumstances the range of temperature the unit can be set at are between 0°C and 50°C. If a limit on the adjustment of the temperature range is required this can be changed as follows:

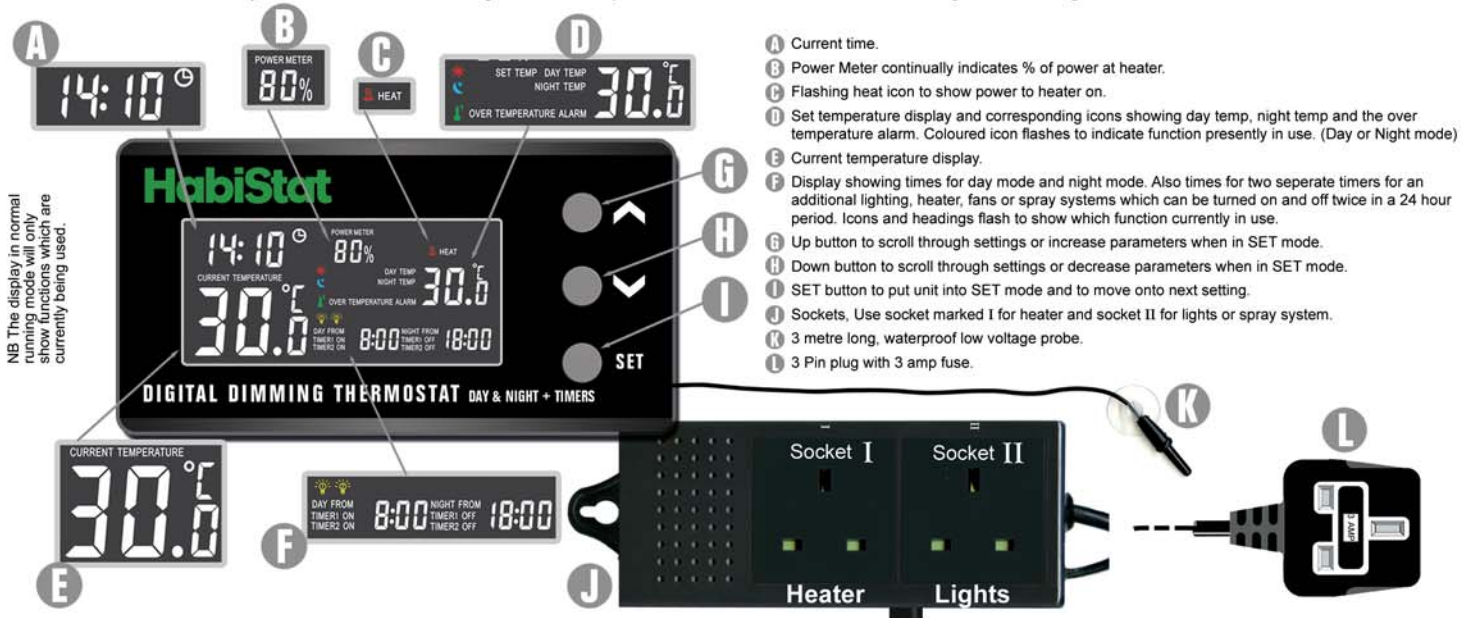
To set the upper limit that the units temperature can be set at press the **Λ** arrow for 5 seconds. Temperature setting on right hand side will flash.

Use **Λ V** buttons to set maximum settable temperature and press SET.

To set the lower limit that the units temperature can be set at press the **V** arrow for 5 seconds. Temperature setting on right hand side will flash.

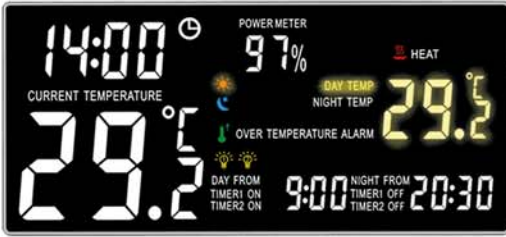
Use **Λ V** buttons to set minimum settable temperature and press SET.

Remember that once set you will be unable to change the set temperatures above or below these settings until the high / low limits are altered.



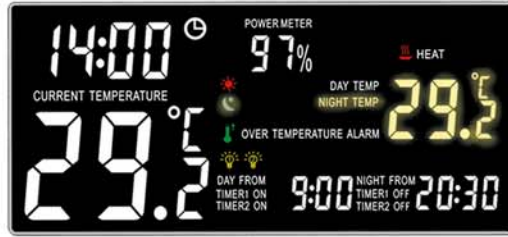
**SETTINGS.** Press the **SET** button and hold for 3 seconds. This puts the unit into SET mode. Use the **▲ ▼** buttons to change parameters (hold button down for rapid change) and then press **SET** to save and move onto the next setting. The order is shown below. Elements highlighted indicates flashing display.

DAY TEMP set the required temperature for day use.



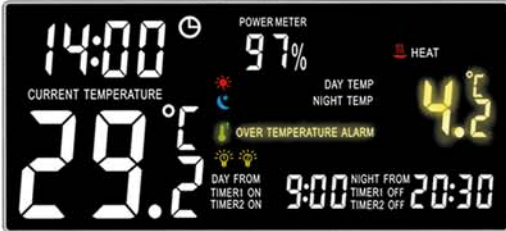
USE TO CHANGE  
▲ ▼  
SET

NIGHT TEMP set the required temperature for night use.



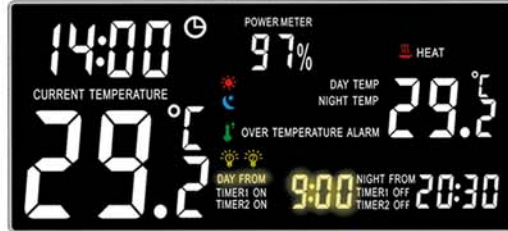
USE TO CHANGE  
▲ ▼  
SET

OVER TEMPERATURE ALARM & SAFETY FEATURE set the alarm between 0.1 & 5°C. Alarm will sound if temperature goes above or below this amount. Leave at 0° to switch alarm off.



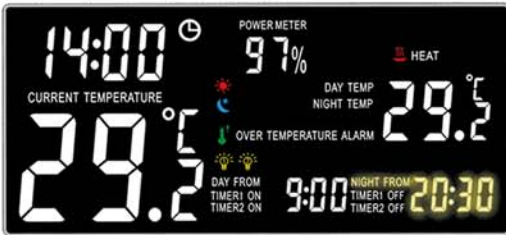
USE TO CHANGE  
▲ ▼  
SET

DAY FROM set the time when you would like day temperatures to run from. Set the hours then press SET and repeat to adjust minutes.



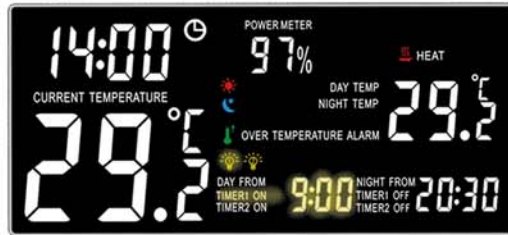
USE TO CHANGE  
▲ ▼  
SET

NIGHT FROM set the time when you would like night temperatures to run from. Set the hours then press SET and repeat to adjust minutes.



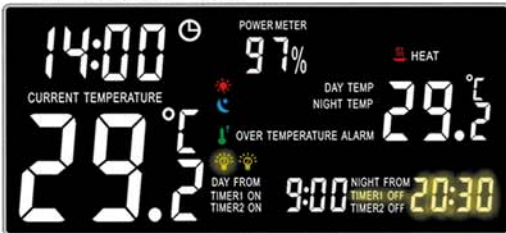
USE TO CHANGE  
▲ ▼  
SET

TIMER1 ON set the time when you would like No.1 timer to switch on. Set the hours then press SET and repeat to adjust minutes.



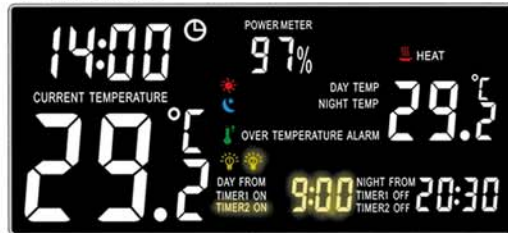
USE TO CHANGE  
▲ ▼  
SET

TIMER1 OFF set the time when you would like No.1 timer to switch off. Set the hours then press SET and repeat to adjust minutes.



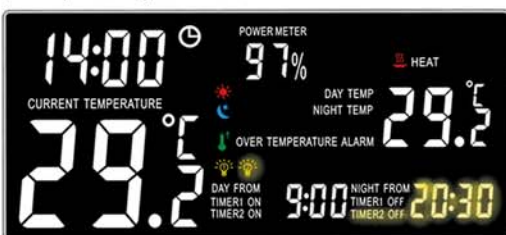
USE TO CHANGE  
▲ ▼  
SET

TIMER2 ON set the time when you would like No.1 timer to switch on. Set the hours then press SET and repeat to adjust minutes.



USE TO CHANGE  
▲ ▼  
SET

TIMER2 OFF set the time when you would like No.2 timer to switch off. Set the hours then press SET and repeat to adjust minutes.



USE TO CHANGE  
▲ ▼  
SET

CLOCK Set the current time. Set the hours then press SET and repeat to adjust minutes.



USE TO CHANGE  
▲ ▼  
SET

If no buttons are pressed for 15 seconds the unit will return to display mode

Return to first setting..

**Quick check of settings.** Settings can be quickly checked without going into the setting routine. Simply scroll up or down with the **▲ ▼** arrows. Functions will scroll through and will flash indicating current settings of those functions flashing. You cannot alter these settings in this manner and the normal display will resume if untouched for 5 seconds.

**Warnings.** If 50°C is exceeded display will show HH.H If lower than 0°C display will show LL.L If E.r.r. is displayed, please refer to the additional "Safety Instructions" included. Also available on our website. Avoid placing the control box or display in areas of high humidity or near water.

**Guarantee**

There are no user serviceable parts in this unit, so please do not open it. Any tampering, including cutting any wire, may render the guarantee void. This thermostat is guaranteed for one year from the date of purchase against faulty parts and workmanship. In the unlikely event of failure please contact sales@monkfieldnutrition.co.uk t:01223 208261. A receipt or proof of purchase will be required. No liability is accepted other than for the repair or replacement of a faulty product. Statutory rights are not affected.