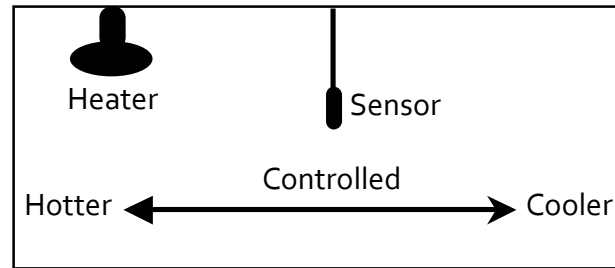


A vivarium should be set up to allow a temperature gradient. The heater should be at one end with the sensor in the centre of the vivarium. This will allow a Hot area, Controlled area and a Cold area.



### Correct temperature reading

The temperature sensor encased in the black sheath is very accurate. Having set the desired temperature on the thermostat and positioned the sensor in its required location the temperature of the air will be controlled accurately at the position of the temperature sensor.

The temperature nearer the heater (from the sensor position) will be hotter and further away from the heater it will be cooler.

Please note that when using a thermometer to check the temperature unless it is in exactly the same position as the thermostat sensor there will be a discrepancy due to the positioning of the thermometer.

### Warranty

Used in accordance with these instructions this thermostat will give many years of trouble free service. The thermostat is guaranteed for five years from the date of purchase against faulty parts and workmanship. In the unlikely event of a failure, return it to Microclimate International Ltd together with a receipt or proof of purchase and a brief description of the fault. If returned within one year there will be no charge, after this time a charge of £5 will be made for administration and postage. Please enclose a cheque or postal order made payable to Microclimate International. Cash is also accepted.

No liability is accepted other than for the repair or replacement of a faulty product.

This does not affect your statutory rights.

Microclimate International  
Unit 4 Wombourne Enterprise Park  
Bridgnorth Road  
Wombourne  
England  
United Kingdom  
WV5 0AL

Tel : 01902 895351  
Fax : 01902 897613

[Sales@microclimate.co.uk](mailto:Sales@microclimate.co.uk)  
[www.microclimate.co.uk](http://www.microclimate.co.uk)



## B2 Magic Eye Thermostat User Guide

IMPORTANT - TO ENSURE CORRECT OPERATION OF YOUR **B2ME** THERMOSTAT PLEASE READ THE GUIDE BEFORE COMMENCING INSTALLATION



### B2 Magic Eye Thermostat

The **B2** Magic Eye Thermostat is designed to give precise microprocessor controlled temperature of non light emitting heat sources up to 600 watts. This may include heatmats and ceramics. The heat source must be a minimum of 5 watts.

The **B2** Magic Eye is a pulse proportional thermostat which will control the heat source precisely by pulsing power to the heater. The thermostat has a built in day/night sensor which allows a temperature drop during the night to recreate a realistic microclimate for your pet.

**WARNING DO NOT OVERLOAD YOUR THERMOSTAT BY CONNECTING HEAT SOURCES WITH OUTPUTS GREATER THAN 600 WATTS. DAMAGE CAUSED BY MISUSE IS NOT COVERED BY THE WARRANTY.**

## Installing your B2 Magic Eye Thermostat

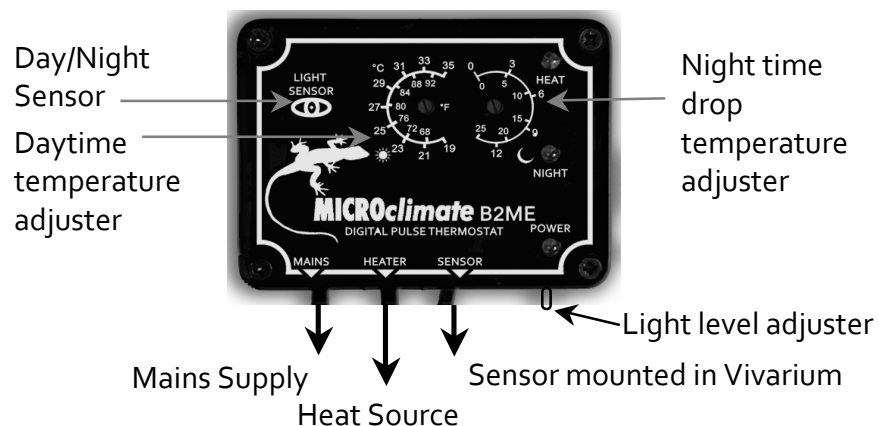
Find a suitable location for the thermostat to be located on the outside of the vivarium ensuring sufficient cable is available for the sensor. The thermostat must be situated in a position where it can detect a difference in light level as day changes to night i.e. facing a window. The light sensor is in the centre of the reptile eye on the lid of the thermostat.

The sensor should be installed inside the vivarium at least 225mm (9 inches) away from the heat source. This is to ensure that the sensor is measuring the air temperature. The sensor should be in free air and not fixed to the wall of the vivarium as this will not give a correct reading to the thermostat. Ensure the sensor is at least 10cm from the side walls of the vivarium.

However if you are controlling a heatmat installed underneath a layer of substrate inside the vivarium then we recommend that the sensor be placed under the substrate directly on top of the heatmat. This allows direct control of the heatmat.

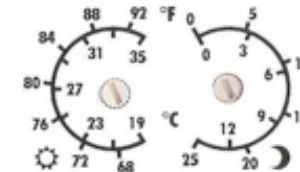
Connect the mains cable from your heat source to the heater socket on the thermostat using a suitable mains plug fitted with a 3 amp fuse.

Connect the mains cable from the thermostat to your mains supply.



## Operating your B2 Magic Eye Thermostat

The thermostat Daytime temperature (sun symbol) is factory set to 19 degrees celsius this is fully anti-clockwise on the temperature dial. The Night time drop temperature (moon symbol) is factory set to a zero degree celsius temperature drop. To adjust the temperatures use a small flat bladed screwdriver and rotate the temperature adjuster clockwise until the slot is aligned with the required temperature on the scale.



PLEASE NOTE : The night time setting is a DROP in temperature i.e. if daytime temperature is set to 25 degrees celsius and the night time temperature drop is set to 5 degrees celsius then the thermostat would control the temperature at 20 degrees celsius at night.

A thermometer should ALWAYS be used to check the temperature within the vivarium and the thermostat then adjusted to give the required temperature for your pets environment.

### Light Level Setting

The light level adjuster is located on the side of the thermostat and comes factory set midway (12 o'clock) in its adjustment range. Fully anti-clockwise (7 o'clock position) will make the thermostat permanently go into night time operation. Fully clockwise (5 o'clock position) will make the thermostat go into permanent daytime operation.

The red LED indicates the operation of the night time mode. If the LED is off then the thermostat is controlling at the daytime temperature. If the LED is on then the thermostat is controlling at the night time temperature. The green LED is a power on indicator and will be lit when the thermostat is connected to the mains supply. The yellow LED on the thermostat indicates power being sent to the heater. If the temperature that has been set requires full power from the heater then the LED will be on all the time. If the power required is only half power then the LED will be on for the same time that it is off. If no power is required the yellow LED will be off. The thermostat can vary the power pulses from zero to continuous resulting in extremely accurate and stable temperature control.

If the yellow LED remains on full brightness for prolonged periods this would indicate that a higher wattage heater may be required to