


Initial Setup

To determine the optimum beginning settings for your MicroZone™ System, follow the instructions below (125W bulbs):

1. Set the MicroZone™ controls to a **High** limit of 92° and a **Low** limit of 72°.
 - a. For 175W bulbs, use 90° and 70°.
2. Set the Ramp setting to 1° per day.
3. With the heat lamps set 18" above the floor (22" to 24" for 175W bulbs), use a heat gun to verify the temperature of the floor.
 - a. If the temperature is at least 95°, the height is acceptable.
 - b. If the floor temperature is 5° to 10°, or more, above 95°, the High limit should be lowered on the control or the lamps should be raised.
 - c. If the temperature is less than 95°, you should lower the bulb height, use a larger wattage bulb or increase the High limit of the control.
(Note: Cannot exceed 100%)
 - d. When farrowing a room, it is recommended that the control band be set approximately 3° higher at loading. This will ensure you are at the ideal beginning settings, as farrowing a room generally takes 3 days to complete.



Each time the room is reloaded, the Microzone™ control settings should be returned to the setting determined in step 3 using the  arrow. This ensures that everything is set for the next group.

NOTE: The greatest electrical savings will be achieved by having the control setting as low as possible while maintaining approximately 95° at the floor level.

Adjustments

Temporary adjustments can be made for a few reasons.

- The pigs are consistently moving away from the lamps at around 10 days because they are too hot.
 - The ramp setting should be raised slightly.
- The pigs are consistently piling after 5 days.
 - The ramp should be lowered slightly.
- Weather Changes
 - If the weather changes are temporarily affecting ambient room temperature, the control band can be adjusted up or down to make sure the pigs are comfortable.

Changing System Configuration

On the MC100 Controller, press and hold the SELECT key for approximately 8 seconds to enter System Configuration Mode. “HL” or “HP” will be displayed above the SELECT key.

1. Press the UP or DOWN buttons to select between HL, for heat lamps, or HP, for heating pad (mats).
2. Press the SELECT key again, until °F or °C is displayed.
3. Press the UP or DOWN buttons to select between °F or °C, for Fahrenheit or Centigrade temperature readings.
4. Press the SELECT key again, and “t1A” or similar will be displayed.
5. Press the UP button to cycle through these options. The table below shows the most common options.
See the operation manual for further details and all settings.



Displayed	# Sensors	Sensor Type
t1A	1	Type A (TS3) DEFAULT
t1b	1	Type b: 1KΩ @ 25°C. Used in Hog Hearth heat mats.
t1c	1	Type C: 5KΩ @ 25°C. Used in Kane heat mats.
t2A	2	Type A (TS3)

6. Press the SELECT key again, and “c 0” will be displayed. Press the UP or DOWN buttons to raise or lower the temperature correction factor. This factor raises or lowers the temperature reading by this set amount. Default is “0”.
7. Press the SELECT key again and the software revision number will be displayed. Both HIGH and LOW limits will show “- -”.
This information may be needed if you are reporting a problem to the HerdStar service department.

After 20 seconds of keypad inactivity, the control will return to the normal display.

Adjusting Temperature Settings

This will move the temperature control band up or down to maintain your desired room temperature.

From the normal display mode, press the BAND UP or DOWN buttons until the temperature at which you want the heating devices to turn completely off is displayed on the HIGH LIMIT display. Both the High and Low limit values will change together as you move the temperature control band up or down. The % power display will also change as you raise or lower the temperature band.

Adjusting Temperature Control Band

This will set the range between your HIGH and LOW temperature limits. See the operation manual for more details.

1. From the normal display mode, press and hold the SELECT key for approximately 5 seconds. The LOW LIMIT display will start to flash; the HIGH LIMIT display will remain steady.
2. Note the difference in degrees between the two values. This is your temperature control bandwidth. This example shows a temperature control band of 20° F.
3. Press the BAND the UP or DOWN buttons to change the lower limit value until you have the desired range between the high and low limits. If you hold down an arrow key for approximately 3 seconds, the temperature will begin to change at a higher rate.

After 20 seconds of keypad inactivity, the control will return to the normal display. (Note: only the LOW LIMIT is changed during this process. To change the HIGH LIMIT, adjust the temperature setting as described in the previous section).



Adjusting Temperature Ramp

The temperature ramp is the amount the MicroZone will lower your temperature control band every 24-hour period to account for reduced heating requirements as your animals grow.

1. On the MC100 Controller, press and hold the SELECT key. After 5 seconds, the LOW LIMIT display starts to flash.
2. Release the SELECT key, and press the SELECT key again. The display will now show the ramp value. This example shows a ramp value of 1.5° F. This is the amount the control will lower the HIGH LIMIT and LOW LIMIT temperature settings every 24-hour period.
3. Press the BAND UP or DOWN buttons to change the ramp value until you have the desired temperature drop per day displayed (**setting this to .0 disables the ramping feature**).



After 20 seconds of keypad inactivity, the control will return to the normal display.