

Threshold

Threshold is a value that a programmer needs to calculate when using the light or temperature sensor.

Before a programmer can use a light sensor or temperature sensor a programmer needs to calculate the value of threshold. Threshold is the average between dark and light. For example, when a light sensor is placed above a white surface its value will be approximately 55. When the sensor is over black, the value will be approximately 35. To calculate threshold add the high value to the low value and divide by two.



To “see” the value of “dark:”

1. Select the correct port on the View Screen.
2. Aim the light sensor toward the “dark” object and keep it as close as possible.
3. Read the value for “dark.”



To “see” the value of “light:”

1. Select the correct port on the View Screen.
2. Aim the light sensor toward the “light” object and keep it as close as possible.
3. Read the value for “light.”

Temperature Sensor Threshold

To find the value of “hot” with a temperature sensor, place the sensor in a “hot” area. The numeric value displayed on the View Screen is the value of “hot.” To find the value of “cold” with a temperature sensor, repeat the steps above in a “cold” area.