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Using Thresholds in Harvest-Watch

Thresholds allow users to set output behavior based on upper and lower limits from a radio sensor. Radios allow for remote monitoring on a farm, but this alone does not automate anything.

Threshold Channels

Channels shows users what radios are bound to which slot and its MAC address. This makes it so users do not have to swap to the radio tab to view this information.

Threshold Channel Inputs 1-4			
Input 1	Input 2	Input 3	Input 4
3E8D	3E8D	3E8D	8344

Threshold Readings

Threshold reads allows users to see what the most recent reading from the radio was but also the type of sensor the radio is using.

Threshold Reading 1-4			
RF90 PSI100 1	RF90 PSI100 2	RF90 PSI100 3	RF50 (A)Temp 4
– PSI	– PSI	– PSI	– F

On/Off Thresholds

On/off thresholds allow users to set the behavior of outputs based on the temperature. For example if you wanted a output to turn on when a sensor reads below a certain value, make your on value smaller then you off value. This way the output only turns off when value has increased. Same goes for the other way around, having a output turn on on a high value and off from a smaller value.

Threshold Off 1-4			
Off 1 (P)	Off 2 (P)	Off 3 (P)	Off 4 (A5)
40 PSI	40 PSI	40 PSI	– F

Threshold On 1-4			
On 1 (P)	On 2 (P)	On 3 (P)	On 4 (A5)
80 PSI	80 PSI	80 PSI	50.0 F

Threshold Output channel

Output Channel determines which logical output a threshold is assigned to. Users are not required to only assign threshold 1 to out 1 and so on.

Threshold AND output

Threshold AND Output 1-4			
AND 1	AND 2	AND 3	AND 4
0	8	0	0

And Outputs allow the use of and functions.
For example if 1 was written into AND 2 slot, this would make it that Output 2 would only turn on when output 1 is on and Output 2's threshold has tripped. If only one of the two requirements are fulfilled, the Output will not turn on. To add more logic Output 2 in the example could also be turned on by a schedule or even a threshold.

NOTE: The number you type into the AND threshold Field is the logical output you are reading, NOT the threshold slot.

Threshold AND seconds

AND seconds allows users to add another condition to AND outputs. By entering a number in the field, this makes the ANDed output wait that time in seconds for both   conditions to be met. If they are both met then the ANDed output turns on. This allows the ANDed output does not instantly turn on and off if one of the conditions is bouncing.

NOTE: numbers entered in the AND seconds Field are based in seconds.

Threshold AND Seconds 1-4			
AND Seconds 1	AND Seconds 2	AND Seconds 3	AND Seconds 4
0	0	0	0