

Application note for Limiting Maximum cooling Duty Cycle

7/16/12

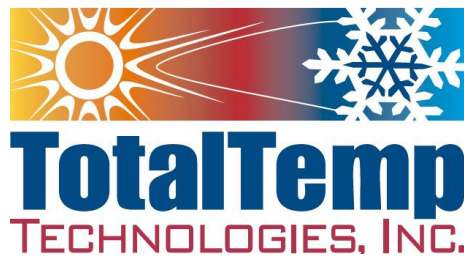
Please note this controller is setup with a PWM retransmit mode on the cooling output.

This allows the user to set the maximum cooling duty cycle to a value other than 100%. For applications such as cooling with CO₂ this can be advantageous to reduce waste of CO₂ during cooling pulldowns. With CO₂, the cooling process involves injecting CO₂ into the platform to produce dry ice snow. The vaporization (sublimation) of the CO₂ snow is what performs the actual cooling. By pulsing the coolant at less than a 100% duty cycle allows the snow more opportunity to absorb heat before being sent out the exhaust.

Follow the instructions in the Synergy PWM retransmit AP note to alter this setting or return the maximum cooling duty cycle to 100% for complete details or change the below setting.

Settings are found in the controller menu: SETUP\ Special Functions PWM Retransmit 1\High Duty Cycle setting.

Please call the number below if further support is required.



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