Setting up the SureFire Spartan Injection Pump with Raven RCM

Below are sample screenshots for setting up the Raven RCM for the SureFire Spartan Injection Pump.

Your setup may be different. Set up Application Width, Sections, etc. as needed for your operation.

This sheet shows the Spartan set up as a single product Liquid Fert Tool. If you are setting the RCM to control more than one product, you would use a Generic profile setup. Many times, the carrier (main product) will be Product 1, and the Spartan will be Product 2.

Adjustments may be necessary in the field for best operation.

396-4330Y1

Setup > Implement > New Profile



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396-4330Y1 SureFire Spartan and Raven RCM Setup

SureFire Ag Systems

The flowmeter on the Spartan is a pump RPM sensor that is calibrated to convert the pump RPM to flow measured in oz/ min. To be certain that liquid is actually flowing, a flow switch with a floating magnetic switch is in the flow line. If the tank is empty, the float will go down, telling the controller that there is no flow. If the flow switch malfunctions and tells the controller there is no flow when there is flow, you can run the system without the flow switch by unplugging the flow switch and plugging in the jumper connector to the Float connection on the Signal Conditioner.



Lights on Signal Conditioner:

Normal operating mode: Green and Blue steady on. Yellow pulsing quickly.

Green-Steady ON-is receiving power from flowmeter connector on harness.

Blue– should be ON when system is running. Indicates Signal Conditioner is sending out pulses to controller.

Yellow—Quick pulses while system is running indicates it is receiving pulses from the RPM sensor on the pump shaft.

Red-should be OFF. Red light ON indicates that float is down or is malfunctioning if fluid is flowing. Red light ON means no pulses are being sent to the controller. (When Red light first comes ON, pulses will be sent for about 10 seconds). To bypass the float (Flow Switch) unplug Flow Switch connector from Float connector on Signal Conditioner, and plug jumper into Float connector. Red light should go out.

Lights on EPD module: -

Red light by fins-steady blink (once per second) indicates power from battery. When system is running, this light goes steady red, and red light in corner turns on (maybe not as bright) indicating PWM signal.



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PULSE OUT

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