

Setup - Alarms

Setup - Rates

Diagnostics-Tests-Section Test

Diagnostics-Tests-Nozzle Flow Check

Section Test (or Calibrate PWM Limits) can be used for manual operation of the system. It can be used to prime the pump on startup, to rinse the system, or for troubleshooting.

Use Nozzle Flow Check to see if system will lock on to a rate at a test speed. Pressure with water will be a lot lower than it will be with a heavier, thicker product.

Diagnostics—Readings—Delivery System will show details on flowmeter operation and pump speed (PWM Duty Cycle). This can be useful information for troubleshooting.

Flowmeter Tap Test

1. Unplug flowmeter. With voltmeter, check for 12 volts power between pins 1 & 2 (black and red wire) of flowmeter connector. Should have 12 volts between signal and ground (two outside pins - black and blue). If no voltage, check at each connection back to Rate Controller.
2. If 12 volts is present, then conduct a **tap test**. Go to setup and change the flow cal to 1. Have a second person watch Delivery System (flowmeter Hz) screen while other person taps (use a short piece of wire or a paper clip) between pins 1 & 2 of flowmeter connector.
3. If voltage and tap test are OK, your wiring to that point is good. If still not fixed, inspect adapter harness and test continuity per schematic (see Section D). Try cleaning electrodes in flowmeter center tube with soapy water.
4. Replace flowmeter.

Electric Section Valve Problems

1. If one valve is not working, switch connections from that valve with a valve that is working to see if the problem is with the valve or with getting power/signal to the valve. If valve indicator light is continually green, replace actuator.
2. All valves should have constant 12V power between pins A & B. When valve is commanded to turn on, there should be 12V signal between pins B & C. Start checking at the connection closest to the valve and work back to the Rate Controller. (See wiring pinouts in main manual.) Even-numbered and odd-numbered valves have separate power.
3. If using Auto Section Control, be sure the controller doesn't think you are in an area already covered. Use the Section Test to open and close valves.

©2015-2021 SureFire Ag Systems

