

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. **Calibrate PWM Limits** is good to prime the pump on startup, to rinse the system, and 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 product. Some check valves may not open with low pressure.

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



SCAN for video on Diagnostics > Readings

Flowmeter Troubleshooting and Tap Test

1. Unplug flowmeter. With voltmeter, check for 12 volts between Power and Ground (pins 1 & 2 or pins B & C) of flowmeter connector. If no voltage, check at each connection back to Rate Controller. Should have 4-5 volts between Signal and Ground (pins 1 & 3 or pins A & C).
2. If 12 volts is present, then conduct a **tap test**. Have a second person watch **Flow Meter (Hz)** on the **Diagnostics > Readings > Delivery System** screen while other person taps repeatedly (use a short piece of wire or a paper clip) between Signal and Ground (pins 1 & 3 or A & C) of flowmeter connector. Taps should register on display.
3. If GS2/GS3 responded to the tap test, your wiring to that point is good. If still not fixed, inspect adapter harness and test continuity at each connection per schematic (see Section D of system manual).
4. Consider cleaning inside tube of flowmeter with warm soapy water. Replace flowmeter if it is still not working.

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 always green or if position indicator appears out of sync, replace actuator. If valve won't turn, remove actuator and turn valve manually to loosen it.
2. All valves should have constant 12V power between pins A & B. When valve is commanded to turn on, there should be 12V 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.)
3. If using Auto Section Control, be sure the controller doesn't think you are in an area already covered or out of bounds. Use the Section Test to open and close valves.

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