Sentinel Flow Module Setup and Configuration Addressing Sentinel Flow Modules







Flow Module Diagnostics

To address the Sentinel flow modules, start by having all the modules plugged in. From this screen, push **Reset All Addresses**. This sends a message to the modules to erase their address. All modules for Product 1 are then unplugged and then plugged back in, in order across the machine. As each module is plugged in, Sentinel identifies its location on the machine and the module is then given its new address and it will turn green on the screen. Have someone watch this screen to be sure each module is recognized as it is plugged in.

If there is a problem with modules not addressing, be sure the tractor is running to keep the voltage up.

Once all modules are addressed, choose the proper **orientation** as described below.

Repeat for each Product.



Flow Module Diagnostics Screen

Setup &

Operation





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4-Pin Deutsch CAN Trunklines to 4-Pin AMP SuperSeal to connect Sentinel Flowmeter Modules

Part #	Number of flowmeter connectors	Length	
208-06-2908Y2	1	5'	CAN Device
208-06-2909Y2	1	15'	1.5 to 2.5 v between 3&1.
208-06-4975Y1	2	5'	+2.5 to 3.5v between 4&1.
208-06-2910Y2	2	15'	2908 and 2909 with one Device connector
208-06-2911Y2	3	15'	BLK AMP SUPER SEAL TOWER 4-PIN
208-06-4976Y1	4	5'	RED 2 +12VDC
208-06-4977Y1	4	15'	GRN 3 CAN L
CAN Bus			CAN Bus
DEUTSCH 4-PIN S GI CAI CAN +12V	HROUD BLK ND 1 GRN N L 2 WHT N H 3 RED DC 4		BLK DEUTSCH 4-PIN TOWER GRN 1 GND CAN L CAN L CAN H +12VDC
4975 and 2910 w	ith two Devic	ce connect	CAN Device BLK AMP SUPER SEAL TOWER 4-PIN RED 2 +12VDC GRN 2 +12VDC CAN L CAN L CAN Device BLK AMP SUPER SEAL TOWER 4-PIN WHT 4 CAN H CAN Device BLK AMP SUPER SEAL TOWER 4-PIN HI CAN DEVICE CAN DEVICE

4 CAN H CAN Bus CAN Bus DEUTSCH 4-PIN SHROUD **DEUTSCH 4-PIN TOWER** BLK BLK GND GND 1 1 GRN GRN CAN L 2 2 CAN L WHT WHT CAN H 3 3 CAN H RED RED +12VDC 4 4 +12VDC

> CAN Bus + 12v between 4&1. +2.5 to 3.5v between 3&1. +1.5 to 2.5v between 2&1.

WHT

2911 is similar to the above, but with three Device connectors.

4976 and 4977 are similar to the above, but with four Device connectors.

The Deutsch 4-pin Tower CAN Bus connector (bottom right of each drawing above) is plugged into another trunkline or, if it is the last trunkline, it is plugged into a Terminator.

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Sentinel Startup Light Sequence to identify Sentinel Multiflow Modules

After the Sentinel has been set up, when the Sentinel is turned on there will be some lights that light up on the flowmeter units. The Sentinel Multiflow unit that contains Rows 1-4 (Multiflow 1) should have an alternate flashing of lights A-B and C-D. (A-B, C-D, A-B, C-D, A-B, C-D, A-B, C-D, A-B, C-D). While these lights are flashing on Multiflow 1, Multiflow 2 (Rows 5-8) should have light B lit. Multiflow 3 (Rows 9-12) should have lights A & B on. Multiflow 4 (Rows 13-16) should have light C on.

The address of any module can be confirmed by unplugging it and watching the light pattern as it is plugged in.

Multiflow Module 1 will alternately flash A-B, C-D several times when the Sentinel is turned on.



Multiflow Module 2 will show light B when the Sentinel is turned on.



Multiflow Module 3 will show lights A & B when the Sentinel is turned on.

Multiflow Module 4 will show light C when the Sentinel is turned on.

6 = 2 + 4 7 = 1 + 2 + 4 9 = 1 + 8 10 = 2 + 8 11 = 1 + 2 + 8 12 = 4 + 8 13 = 1 + 4 + 8 14 = 2 + 4 + 8 15 = 1 + 2 + 4 + 8

Other LED Signals

When liquid is flowing, there will be a flashing of LEDs on the channels with flowing liquid, with the frequency proportional to the flowrate.

When liquid is not flowing, the LED on each channel will be lit to indicate there is liquid in the unit. (These lights will blink off shortly once every 3 seconds.)

When liquid is not flowing but is present in the flowmeter, if the LED is OFF (with a short blink every 3 seconds), that indicates the flowmeter on that row is not detecting any liquid. If all rows are like this, it could indicate a low conductivity fluid that the units will not read. If one or two rows are like this, it could be a marginally conductive liquid or faulty flowmeter on that channel. Clean the inside tube with a soft cloth.





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