

SP200 NEW DISPLAY USER MANUAL ADDITION

MODEL SP200 2010

2010 NEW DISPLAY VERSION 1.0 RIGHT/LEFT LIVE CONTROL PLUS-1 CRC SYSTEM

SP200 New Display Features 2010



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Changing the Gallons Per Sq. Yard (GSY)



value. This will override the width sensor.



ON: is ON.

OFF: is OFF

Calibration & Setup Pages

Editing Calibration & Set-up Values

- 1. To select any of the items on the calibrate or set-up pages for editing press the button next to the item, it will change to white it is than ready for editing.
- 2. Use the up/dn. Arrows to increase/decrease the value.
- 3. Press OK to save the value.



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Using the temperature (T-Cal numbers)

- 1. To select any of the items on the calibrate or set-up pages for editing press the button next to the item, it will change to white it is than ready for editing.
- 2. Use the up/dn. Arrows to increase/decrease the value.
- 3. Press OK to save the value.
- 4. Note: because these are resistive type temperature sensors it may be necessary to adjust the T-Cal because of wire resistance, etc.

With or Without Bypass Valve

- 1. By pressing button #5 it toggles between w/bypass & w/o bypass.
 - a. **With bypass**: is the standard SP200 operation, anytime the system is calling for less than 5gpm the computer holds the product pump at 5gpm and controls the air pressure on the bypass valve allowing the extra product to be bypassed back to the tank.
 - b. **Without bypass:** the computer will maintain 50psi on the bypass valve at all times, and allow the product pump to run down as low as required (to zero if necessary.

Feedback Product Pump or Flow Meter

- 1. By pressing button #6 it toggles between FB product pump & FB Flow Meter.
 - a. **FB Product Pump**: is the standard SP200 operation, there is a PPu sensor in the hydraulic motor running the product pump, the computer calculates the GPM by using the RPM of the product pump.
 - b. **FB Flow Meter:** this system uses an actual flow meter in the pump outlet line.



Nozzles A, B, C Manual Over Ride





Diagnostics Menu (selection page)

Switches	Diagnostics Menu	For Spray System
PPUs	Node2 V5.0.0	Product Load Sys
Sensors Gauges	Node3 V5.0.0 Node4 V5.0.0 Node5 V3.1.1	Spraybar Faults
Battery & Sensor	Node6 V3.1.1 Node7 V5.0.0 Node8 V5.0.0	Valve Faults

the Version of the software in that node.

The next few pages will shoe each diagnostics page.

Node not communicating with the rest of the system will flash in the center of the display, which node is not communicating.



Switch diag. screen will test the RH switches or the LH switches, which ever operator mode you have selected.



PPU diag. page: you can look at the frequency of the pulse pickup sensors. Also shows the command GPM from the computer and the actual FB GPM.

	5		
LN Spd Sensor 200 Freq. OK		HI Spd Sennor 200 Freq. OK	Ģ
Pump Spd Snar 55 Freq. OK			
Pump GRM Cmd. 15.0 GRM Act. 15.9			0
			6

Note: reference only!

- a. Speed sensors 280 Hz = 30 FPM
- b. Pump sensor 55 Hz = 14 GPM

Sensors Gauges Values s Prod Tank Temp 2,365 VbC OK roduct Tank Sensor 3.148 VDC OK Gauge Values String Pot LH Bar Temp. 2.344 VDC OK 1.048 VDC OK Dypnan Air PSI 2.597 VDC OK RH Bar Temp. 2.411 VDC OK Return Pan Cyl 3.527 VbC OK (\bullet) 1 (ssc 5 OK

Battery Sensors Values



Requirements for Spray This is a graphical representation of the three requirements for the spray-bar to turn ON.



Product Load Pump, Control System



Spray-bar Air Valve Faults



Spray-bar Air Valve Faults

Product Pump OK	Valve Faults	Load Pump OK
Prod Pump Fwd OK		Prod Pump Re OK
Return Pan Mtr OK		Hot Oil Htr OK

Help Menus

To reach the help screen for item, hold the button associated with that item and the ESC button. Note: the help menu's have not text at this time.





Example of a Sensor Fault Alert



system will shut down and window will pop-up telling the operator about the fault.

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Tank Gauge Calibration

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The tank sensor is calibrated at the factory when the mechanical tank gauge is calibrated, these numbers are recorded for each SP200 starting at s/n112, and a copy placed in the right valve box.

- If the computer system looses the calibration or node2 is replaced, you can use the service tool to put those values back into node2.
- You can also use the service tool to set the default valves which will set your tank gauge close. (it is not calibrated by doing this).
- You can also do a calibration in the field by filling your tank with a calibrated meter and following the below instructions.

TO CALIBRATE THE TANK SENSOR:
NDTE: Do all tank calibration from RH side ONLY!
1: Turn off Master Switch
Toggle pump switch to FWD or REV than back neutral.
3: Wait 20 seconds.
4: Toggle the #10 value select switch 5 times. leave sw #10 on
5: When tank has 225 gallons turn on sw #1.
6: When tank has 400 gallons turn on sw #2
7: When tank has 600 gallons turn on sw #3.
8: When tank has 800 gallons turn on sw #4.
9: When tank has 1000 gallons turn on sw #5.
10: When tank has 1200 gallons turn on sw #6.
11: When tank has 1500 gallons turn on sw #7.
12: When tank has 1800 gallons turn on sw #8.
13: When tank has 2000 gallons turn on sw #9.

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