

Diagnostic Mode

The control box has a Diagnostic Mode that can be useful for fault finding if a problem occurs with the applicator.

This should only be used with the consultation of one of Selmech's engineers.

Enter the Diagnostic routine by releasing the RUN/HOLD button when DiagMode is displayed as shown in the “Control box extended set up options” section.



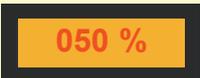
When the RUN/HOLD button is released and an incremental count of pulses from the flow sensor will be displayed. It can count from 0 up to 600000 . if it gets to 600000 it will start over.



What does this mean: -

If it is counting up it shows that the flow sensor is registering pulses which means that fluid is flowing and being recorded. If the display is a series of zeros then it shows that the flow sensor is not registering any pulses which could mean there is no fluid flowing because the pump is not running or there is a blockage. It could also mean that the flow sensor is not working this could be because a wire has broken or that it has developed a fault.

Press and release the “RUN/HOLD” button and next the current drive to the pump will be displayed as a percentage. *(Turning either knob in this display can make the figure change)*



What does this mean: -

The percentage drive to the pump shows how hard the pump is being asked to work. This depends on the setting you have entered into the control box. If the percentage drive is 100% but your application rate is well within the maximum range of the pump it could mean that there is a blockage or the flow sensor is not sending a signal back to the control box. This would have showed up in the previous section with a zero count of pulses.

Press and release the “RUN/HOLD” button and next the current supply voltage level will be displayed.

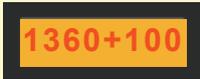


What does this mean: -

To get an accurate reading of voltage it should be done when the pump is pumping and with the harvester/tractor running!

The voltage displayed should be between 12.00 volts and 14.00 volts it would normally be 13.80 volts. If the voltage is low or erratic it could mean a bad connection anywhere from the battery to the pump. If the voltage is high there could be a problem with charging system of the machine.

Press and release the “RUN/HOLD” button and next the current calibration factor will be shown and any adjustments that have been made to the calibration.



What does this mean: -

The first 4 figures shown are the calibration factor. This is a preset figure relating to the flow sensor that determines the accuracy of the pump. This can be adjusted approximately +/- 10% about the default setting if required and the last 4 figures show any adjustments that have been made. Refer to the “Adjusting the preset calibration” section in this manual.

Press and release the “RUN/HOLD” button and next the calculated amount being dispensed is displayed. *(Turning either knob in this display will make the figure change)*



What does this mean: -

When entering the amount of forage to be treated in TONNES PER HOUR and the application rate of your additive the controller works out how much additive is to be dispensed. This is displayed in millilitres or litres per minute depending on the resulting output. For example if you are treating 60 tonnes per hour and your application rate is 1.5 litres per tonne then the display will show 1500 ml.

Press and release the “RUN/HOLD” button and ExitDiag will be displayed and the controller will return to the run screen in the HOLD mode

