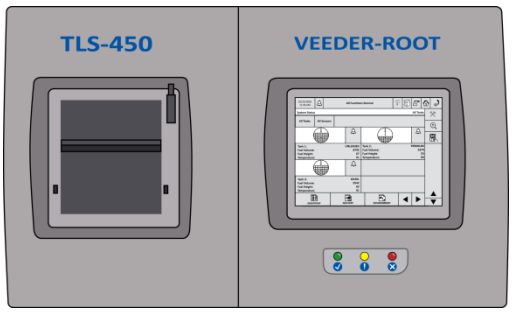
Equipment Check Guidelines for PMP Steel Tank Interstitial Sensors p/n 63420 and 63460 with TLS-450© consoles



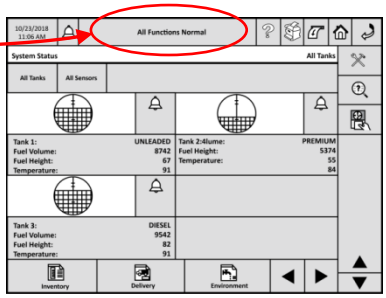
The purpose of this checklist is to provide regulators and inspectors quick access to information related to these sensors. This checklist cannot replace the Veeder-Root© console manuals and assumes that the console has been properly configured for a Veeder-Root 794380-420 and 794380-460 sensors.

For detailed operational instructions of the TLS-450 console, please refer to the OEM manuals. For testing instructions, refer to the **Functional Test Procedure** shown in the product manual.

1. Sensors must be inspected annually. The station owner should refer to documentation such as the EPA's "Operating And Maintaining UST Systems" and PEI RP900-17 "Recommended Practices for the Inspection and Maintenance of UST Systems. These documents provide information for visual inspection of the sensor installation and operability. Operability testing procedures for this sensor can be found at the back of the PMP Steel Tank Interstitial Sensor manual.

2. Confirm the power is on to the TLS console. The green *Power* lamp should be the only lamp illuminated.

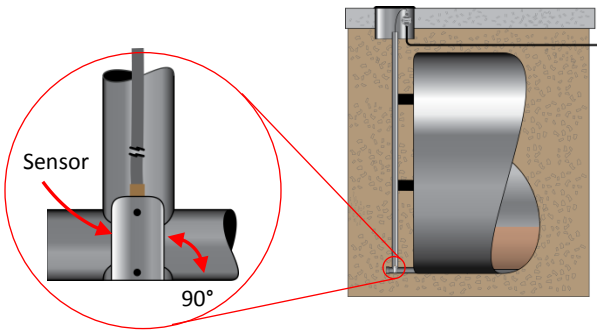
System Status Window



3. Verify there are no active alarms. Under normal circumstances the console will display "All Functions Normal" in the system status window (similar to the display at right).

4. Verify the sensor is sitting upright at the bottom of the riser pipe.

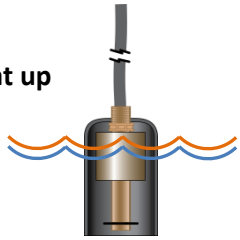
5. The sensor is a float switch design. It has three states when installed in the TLS console: Float Down, Float Up and Sensor Out. It is therefore programmed as a "Tri-State" sensor during the TLS setup.



Float down
(normal)

AUG 28, 2016 10:43:00 AM
ALL FUNCTIONS NORMAL

Float up



AUG 28, 2016 10:43:00 AM
L 1: FUEL ALARM

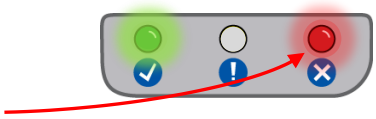
Sensor Out

Possible causes:

- Failed sensor
- Bad field connections
- Failed sensor cable
- Failed Interface Module

AUG 28, 2016 10:43:00 AM
L 1: SENSOR OUT ALARM

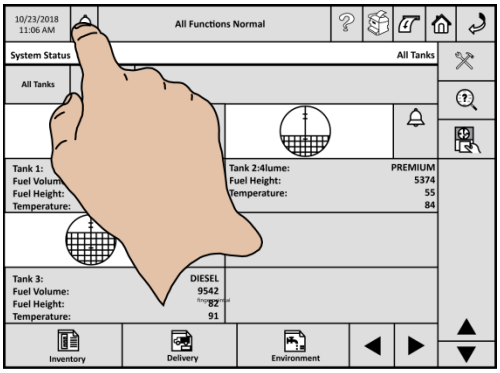
6. If liquid is detected, the console will go into alarm. The beeper will sound, the *red* lamp will flash and the display will alternate between “All Functions Normal” and the alarm message.



The *red* lamp will continue to flash and the display will continue to alternate until the alarm condition has been addressed.

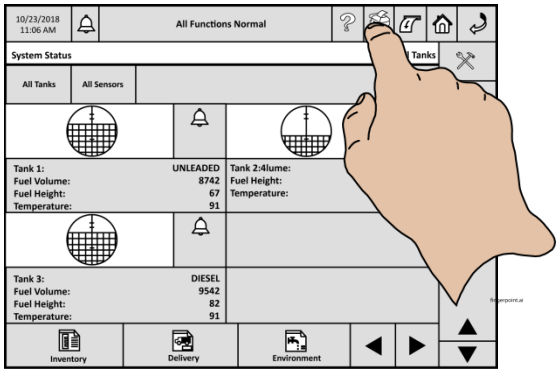
You can press the Bell icon to display an active alarm report. If there are multiple alarms, they will also be displayed in the system status window.

On the alarm history screen, you can select the History tab for a complete history for that alarm.

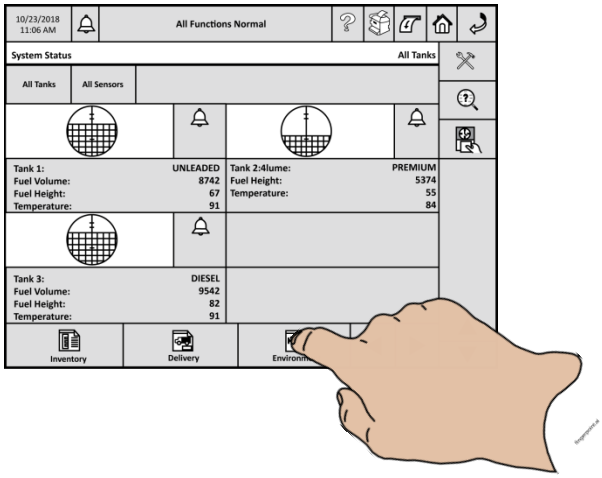


The beeper will continue to sound until the alarm has been acknowledged. To silence the alarm beeper and acknowledge the alarm, press the Bell icon again.

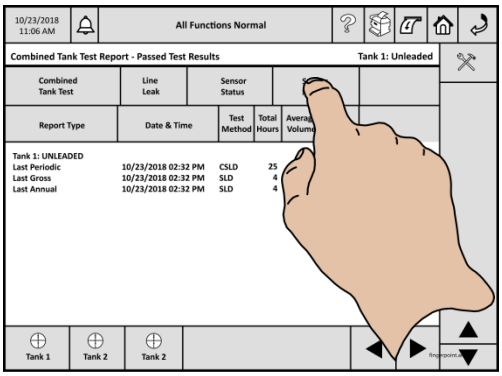
Touching the Print button, at any time, will print reports currently on the screen.



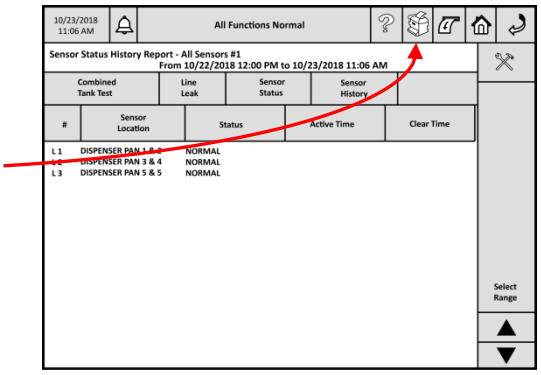
7. To view history reports, press the Environment icon.



8. On the next screen, select the Sensor History tab.



9. This screen will show the alarm history for all sensors.

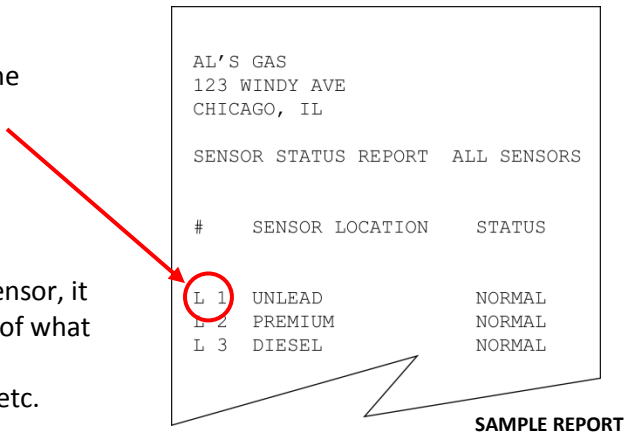


If you would like a printout of this screen, simply press the printer icon.

10. When you have finished with this screen, press the Home icon to return to the Home screen.

"L" indicates "Liquid". The number that follows is the position in-which the sensor is installed on the Interstitial Sensor Interface Module.

11. If the console cannot determine the status of the sensor, it will result in a "Sensor Out" alarm. A few examples of what might cause this alarm are; failed sensor, bad field connections, bad sensor cable or interface module etc.



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