

Sales Office
20675 N. Friends Road
P. O. Box 309
Greenleaf, ID 83626
USA



888-884-2843
888-884-4145 - Fax
Outside USA
208-453-1714
208-459-3365 - Fax

Manufacturer's Suggested Annual Maintenance Protocol For The Interstitial Float Switch Assembly

The EFG-8000 series of liquid level gauges operates as a very simple gauging device with level alarm options, and an interstitial alarm option that requires almost no maintenance. This document is specifically about the interstitial float assembly operation and testing procedures.

The interstitial float device operates as a normally closed circuit device. An interstitial alarm will visually alternate in the LCD display by showing the letters "ISLA" and the gallons in the tank. This visual indicator will continue until the open circuit condition is cleared (the float returns to the bottom position). The Solar Gauge typically operates in a low power mode until it has sensed a greater than 2% tank volume change. When the gauge detects no liquid level change in the tank it goes into a power saving mode reducing the refresh timing of the display and alarm soundings. This is important to understand during testing of the interstitial float assembly and listening for the enunciation. Although the display will show the alarm in seconds, the enunciator may take up to approximately 90 seconds to enunciate the audible alarm - three short beeps. Once the alarm has sounded it will continue to enunciate approximately every 90 seconds until cleared.

Operational inspections must be done at least once a year depending on local inspector authority requirements. The preferred method of testing the assembly is removal from the interstitial cavity. (Note: pipe fittings must be provided above the interstitial cavity that allow for the inspection and removal of the interstitial assembly without disconnecting the communication wires.) Hold the assembly in your hand and inspect for liquid contamination past or present and document the findings. The preferred method of activation is by turning the assembly upside down. The float must fall freely and move to both extremes when carefully shaken up and down. If the float does not move freely the assembly needs replaced. Next, holding the assembly upside down (wires coming out of assembly will be facing down), watch for the alarm message in the LCD display. You must hold this position until the three short beeps are heard. Another option is to temporarily place the assembly into a container of clean water, unleaded gas, or Av-Gas at least two inches deep (with the wires in an upright position). Test for the alarm under the timing conditions outlined above. **Diesel is not a recommended liquid to test in because it might show false contamination over years of testing.** With either method of testing, the float assembly should cause an interstitial alarm, which confirms correct operation of this device. When testing has correctly caused an alarm, carefully return the interstitial alarm assembly down into the bottom of the cavity and make sure all the pipe fittings are sealed against moisture.

If you have questions on your results please contact customer assistance*.
888-884-2843 between 9-5 M-F, Mountain Time Zone.

*Owners' manuals are always available on the web at www.solargauge.com