

TRS Series Day Tank



Troubleshooting Tips: ECM Functional Light Flashing

Tramont TRS Series Day Tanks include a System 2000PLUS™ Electronic Control Module (ECM) that operates the pumps and motors and monitors fuel level conditions. One of the indicators on the unit is the ECM Functional Light. During normal operation this will be illuminated a steady green. **(Arrow A)**

When this light is **flashing** it means that the ECM is receiving an “out of range reading” from the fuel level sensor inside the tank. The sensor is located under the ECM and is mounted to a plate on the 4.5” X 4.5” inspection opening.

When the ECM Functional Light is flashing, power is cut off to the supply pumps. When this occurs the other LEDs may or may not light up, depending upon the problem. Either way, *when the ECM Functional Light is flashing, the other alarms may not be functioning.*

If the ECM Functional Light is flashing, follow these steps to identify the source of the problem:

1. Remove the four mounting nuts on the corners of the ECM base. **(Arrow B)**
2. Tilt the ECM back to expose the inspection plate, being careful not to dislodge any wires inside the ECM. **(Arrow C)**
The top of the sensor is visible in the middle of the plate.
3. Disconnect the two wires on the sensor. **(Arrow D)**
4. Remove the five mounting screws on the sensor **(Arrow E)** and carefully lift the sensor out of the tank.
5. Measure the resistance with an ohm meter across the two terminals on the sensor. The ECM is set up to detect >0 and <90 ohms, where close to 0 is “empty” and close to 90 is “full.” Move the float on the sensor all the way from the down” (empty) position to the “up” (full) position. Monitor the readings while swinging the float from empty to full. Watch for opens, shorts and sticky spots. Anything outside the 0 to 90 range will shut down the system and flash the EMC Functional Light.

Cleaning the fuel level sensor will often solve the problem. Follow these steps:

1. Swing the float arm all the way to “full” or “empty.”
2. Blast compressed air or non-residue contact cleaner into the pivot point. **(Arrow F)**
3. Swing the float arm all the way to the other end of its travel and repeat Step 2.
4. Swing the arm through its full length of travel 15 to 20 times.
5. Repeat Steps 2 and 3.
6. Retest with the ohm meter per the above instructions.
7. If the readings are correct, reinsert the float sensor into the tank, affix the mounting screws and reconnect the two wires. Carefully move the ECM back into place and attach it to the top of the tank with the mounting nuts.
8. If the readings are not correct, you likely need to replace the sensor. Contact Tramont for assistance.

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