Fulfill® Retrofit Melter Capacitive Level Sensor - P/N 1099526, 1101987 and 1104650

Follow these instructions to replace the capacitive level sensor and probe for a Fulfill retrofit melter

WARNING: Risk of personal injury or equipment damage! Refer to the safety information provided in the melter manual before servicing the melter. Failure to comply with the safety information provided can result in personal injury, including death.

Required Tools:
- Adjustable crescent wrench
- Philips head screwdriver
- Flat blade screwdriver

Replace the Capacitive Level Sensor and Probe

1. Disconnect and lock out power to the Fulfill Retrofit control box.

2. Remove the tank lid.

3. Loosen the nut that holds the level sensor probe into the holder assembly, and then remove the probe.

4. Remove the 4 philips head screws that secure the top to the control box, and then remove the top.

5. Disconnect the sensor wiring at XT1. Remove the old cable, and then install the cable from the new level sensor.

6. Connect the new sensor wires at XT1, and then replace the top of the control box. Tighten the 4 philips head screws.

7. Loosen the two M4 hex nuts and washers that secure the capacitive sensor control box, and then remove it.

8. Install the new level sensor box, and then tighten the two nuts.

9. Position the probe so that the black line around the probe's diameter is two or more inches from the bottom of the probe holder (4 to 8 in. for probe P/N 1104650), and then tighten the holder nut.

10. Reinstall the lid.

Note: ProBlue shown for reference only.
Baseline Setting for the Level Sensor

Upon setting the probe’s height, calibrate the level sensor.

1. Remove the threaded plug on the front face of the level sensor control box to reveal the adjustment potentiometer.

2. Fill the tank with adhesive and allow it to melt completely.

3. Adjust the liquid level to coincide with the black line on the level probe.

4. If the LED on the control box is amber, turn the adjustment potentiometer counter-clockwise until it turns green. If the LED on the control box is green, turn the adjustment potentiometer clockwise until it just turns amber. The point at which the LED transitions from green to amber is the switching point.

5. Once the switching point is found, rotate the adjustment potentiometer 1/2 turn clockwise and leave it at that position.

Final Setting for the Level Sensor

1. Begin normal operation. Check the adhesive level in the tank after 30 minutes of operation.

2. If the adhesive level is satisfactory the calibration procedure is complete. Re-install the plug over the calibration pot to discourage tampering.

3. If unmelted adhesive is piled up to the top of the tank or the system has already faulted due to overfilling, rotate the adjustment pot 1/2 turn clockwise to increase the level sensor’s sensitivity. Wait 10 minutes and check the adhesive level again. If the adhesive level is still too high, repeat this process until the adhesive level is satisfactory. When finished, reinstall the plug over the calibration potentiometer.

4. If unmelted adhesive has built up on the probe and the adhesive level in the tank has dropped below the black line on the probe, rotate the adjustment potentiometer 1/2 turn counter-clockwise to decrease the level sensor’s sensitivity.

5. Wait 10 minutes, and check the adhesive level again. If the adhesive level is still too low, repeat this process until the adhesive level is satisfactory.