Fulfill® Retrofit and Integrated Melter Capacitive Level Sensor - P/N 1121801, 1121802 and 1121803

WARNING! Allow only personnel with appropriate training and experience to operate or service the equipment. The use of untrained or inexperienced personnel to operate or service the equipment can result in injury, including death, to themselves and others, and damage to the equipment.

Level Sensor Replacement for Retrofit Melter

1. Empty the reservoir of existing adhesive.
2. Disconnect and lock out power to the Fulfill Retrofit control box.
3. Open or remove the tank lid.
4. Loosen the two hex nuts and washers that secure the capacitive sensor, and then remove it.
5. Remove the 4 philips head screws that secure the top to the control box, and then remove the top.
6. Disconnect the sensor wiring at X3 and X7.
7. Loosen the strain relief from the control box, and then remove the old cable, and then install the cable from the new level sensor.
8. Install the sensor into the melter. Tighten the M5 nuts to 1-1.5 N-m (10-15 in-lb).
9. Attach the sensor wires to X3 and X7 on the control box.
10. Tighten the sensor connector to 1 N-m (9 in.-lb).
11. Follow the calibration procedure given later in this instruction sheet.
12. Replace the top on the control box, and then replace the lid on the melter.
13. Resume normal operation.
Level Sensor Replacement for Integrated Melter

1. Empty the reservoir of existing adhesive.
2. Disconnect and lock out power to the Fulfill Retrofit control box.
3. See Figure 1. Remove the lid, pump cover and rear panel. Access the electrical cover filter door.

Figure 1  Remove lid and back panel, access electrical cover and pump cover

4. See Figure 2. Peel back the insulation on the chimney wall of the pump area.

Figure 2  Peel back insulation
Level Sensor Replacement for Integrated Melter (contd)

5. See Figure 3. Remove the screw that secures the conduit cover l to the electrical connection of the melter, and then pull the conduit cover open.

![Figure 3: Remove the insulation wall](image)

6. See Figure 4. Locate and remove all tie straps.

![Figure 4: Remove tie straps](image)

7. See Figure 5. Disconnect the sensor from the PCA board.
8. Remove the regulator assembly from the back of the melter.

9. See Figure 6. Loosen and remove the air inlet fitting and adjacent allen head screw on the back of the melter to disconnect the electrical box bracket.
Level Sensor Replacement for Integrated Melter (contd)

10. See Figure 7. Remove the nuts that secure the electrical box to the melter base.

Figure 7  Loosen nuts to the electrical box

11. See Figure 8. Remove the level sensor.

Figure 8  Remove the level sensor

12. Install the new level sensor into the melter. Tighten the screws to 1-1.5 N-m (10-15 in.-lb).
13. See Figures 9 and 10. Route the level sensor cable through the slot between the filter drain and the electrical cover, and then bring the level sensor connector to the PCA board. Connect the cable, and tighten to 1 N-m (9 in.-lb).

Figure 9  Route the level sensor cable

Figure 10  Route the sensor cable through the electrical box

14. Close the conduit cover and replace the screw. Adhere insulation to the chimney wall.

15. Follow the calibration procedure given later in this instruction sheet.

16. Replace air fitting, regulator assembly, the lid, pump cover and rear panel. Resume normal operation.
Level Sensor Calibration

**Basic (Empty Level) Calibration (Required)**

**CAUTION!** Do not attempt empty calibration with a full melter. Doing so will result in an overfill condition.

1. Allow tank to reach application temperature.
2. Adhesive level should be at or below the bottom of the probe.
3. Close lid.
4. Press SW3 (blue button) until all LEDs stop changing color (approximately 5 seconds).

**Precision (Full Level) Calibration (Optional)**

1. Allow tank to reach application temperature.
2. Hand fill the adhesive level so that the pellets are at the top of the probe.
3. Close lid.
4. Within 30 seconds, press SW2 (white button) until all LEDs stop changing color (approximately 5 seconds).