This instruction sheet provides the procedure for installing a Fulfill system fault output board on a ProBlue Fulfill integrated fill system unit or on any melter that has been retrofitted with the Fulfill retrofit kit. The fault output board converts the fault output voltage to 24 VDC when there is no fault and to 0 VDC when a fault occurs.

**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:**
- Phillips-head screwdriver
- Small flat-blade screwdriver
- 2.5-mm hex wrench
- 6-mm open-end wrench

**Install the Fault Output Board on a Fulfill Integrated System**

1. Relieve system pressure and disconnect and lock out power to the Fulfill melter. Refer to the unit manual as needed.

2. Open the electrical enclosure door.

3. Remove the 8-mm standoff that secures the amplifier bracket. The standoff is close to the software upgrade button on the Fulfill control board.

4. Disconnect the plug from XT2 on the Fulfill control board.

5. Use the 8-mm screw provided in the service kit to secure the fault output board and bracket assembly to XT2 on the Fulfill control board.

6. Continue to the next page to make the required wiring connections.

**Install the Fault Output Board on a Fulfill Retrofitted System**

1. Relieve system pressure and disconnect and lock out power to the Fulfill melter. Refer to the unit manual as needed.

2. Remove the Fulfill control box cover.

3. Remove the screw and washer located close to the software upgrade button on the Fulfill control board.

4. Disconnect the plug from XT2 on the Fulfill control board.

5. Use the through-hole spacer and M3 x 25 mm screw provided in the service kit to secure the fault output board and bracket assembly to XT2 on the Fulfill control board.

6. Continue to the next page to make the required wiring connections.
Make the Wiring Connections

1. If you are installing the fault output board on a retrofitted Fulfill system, remove the straight header from positions 9-10 on the plug previously disconnected from XT2 (in step 4 of the previous procedure) and then perform whichever of the following actions best alleviates interference:
   - Install the right-angle header from the service kit at positions 9-10.
   - Retain the straight header and transfer all the wires from the plug previously disconnected from XT2 to the optional right-angle connector included in the service kit.

2. Connect the 10-position XT2 plug to XT2 on the fault output board.
   **NOTE:** This plug was disconnected from XT2 on the Fulfill control board in step 4 of the previous procedure.

3. Disconnect the six-position membrane tail connected to X1 on the Fulfill control board and connect the 3.5-in. ribbon cable extension from the service kit to it.
   **NOTE:** This connection is polarity-sensitive. Pin 1 on the 3.5-in. ribbon cable must be connected to pin 1 on the six-position membrane tail plug.

4. Connect the 5-in. ribbon cable from the service kit to X1 on the Fulfill control board and to X1 on the fault output board.
   **NOTE:** This connection is polarity-sensitive. Pin 1 on the 5-in. ribbon cable must be connected to pin 1 on the X1 connectors.

5. Connect the six-position membrane tail with the 3.5-in. extension to X2 on the fault output board.

6. If desired, remove the ground wire connected to XT2 on the fault output board. The ground connection is provided in the new wiring.
   **NOTE:** If positions 7 and 8 are not connected in one of these ways, the Fulfill unit will not be enabled to operate properly.

7. Make the desired customer-specific output connections at XT3 on the fault output board.
   Ensure that positions 7 and 8 on XT3 are connected in one of the following ways:
   - to the melter’s Ready Output contacts
   - to a jumper wire between positions 7 and 8.
   **NOTE:** If positions 7 and 8 are not connected in one of these ways, the Fulfill unit will not be enabled to operate properly.

8. Close the electrical enclosure or reinstall the control box lid, as applicable, and restore the system to normal operation.