



**TELEDYNE
INSTRUMENTS**

Advanced Pollution Instrumentation

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Service Note

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REPLACEMENT OF THE FLOW SENSOR IN THE FLOW SENSOR ASSEMBLY

Subject: Necessary information on how to replace the flow sensor in flow sensor board (API part number 00402).

Tools: Philips head screwdriver, 25W soldering iron, solder removal tool, solder, a pair of soldering tweezers

Procedure:

1. Remove the flow sensor board from the unit. Be careful disconnecting the tubing from the flow sensor and the pressure sensor.
2. Desolder the flow sensor terminals.
3. Loosen the screws attaching the flow sensor to the board.
4. Carefully remove the flow sensor from the board. Make sure the solder pads are not damaged.
5. Install a new flow sensor into the board.
6. Install the screws attaching the flow sensor to the board. Please do it before soldering the terminals.
7. Solder the terminals.

CAUTION: MAKE SURE YOU USE SOLDERING TWEEZERS AS A HEAT SINK. FAILURE TO DO IT WILL CAUSE THE DAMAGE TO THE FLOW SENSOR.

8. Clean the board, attach the tubing to the flow sensor and pressure sensor.
9. Install the board into the unit.
10. Leak check the analyzer.
11. Turn the power on.
12. Check the voltage on TP3 flow sensor board for 10.23 ± 0.10 Vdc.
13. Check the front panel. If the front panel reading is slightly different from the measured flow, readjust R3 on the flow sensor board, to achieve correct flow reading.