



07-003A
20 March 2007

M200EU COOLER TEMPERATURE MODIFICATION

I. PURPOSE:

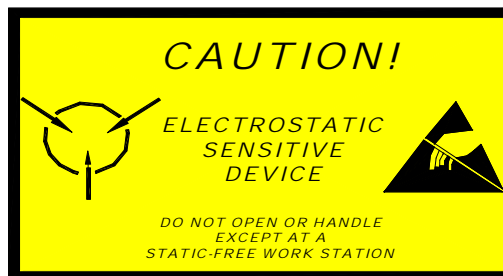
To help the customer install a new jumper on to the M200EU preamp board for PMT temperature modification. This modification is being done to keep the PMT temperature constant. If the PMT temperature is not constant the instrument may experience drift.

II. TOOLS:

N/A

III. PARTS:

044410200 - PLUG, TEC TEMP, PREAMP, M200EU (5°C)



The electronics used in T-API analyzers are sensitive to Electrostatic Discharge (ESD). When working on any T-API device, please ensure that you are properly grounded prior to handling or touching any electronic circuitry in the analyzers! For more information on how to protect sensitive components from ESD during handling, please contact T-API customer service and ask for the ESD Service note number 03-022A.

IV. PROCEDURE:

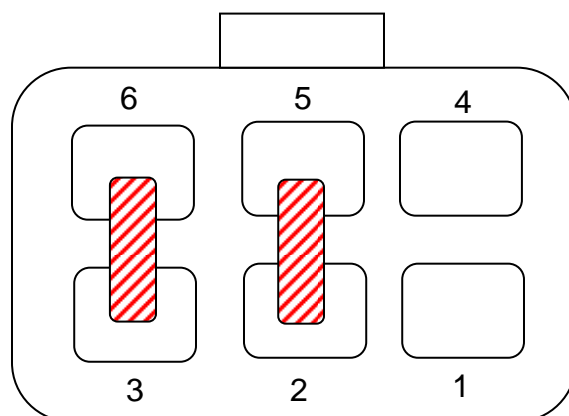
1. Power down the instrument. Remove the power cord from the instrument.
2. Locate the PMT preamp board and remove the jumper located at JP2.
3. Remove the new jumper from its package. The jumper should have two wires, one that jumpers pins 3 and 6 and then one that jumpers pins 2 and 5 as shown in figure 1.

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FIGURE 1



NEW JUMPER PLUG (JP2)

4. Install the new jumper in to JP2 on the pmt preamp board.
5. Reconnect power to the instrument and turn the instrument ON.
6. Go into the VARS menu using the 929 password. Press the NEXT button until the top line reads PMT_SET.
7. Press EDIT and change the set point to 5, press ENTER.
8. Change the LOW alarm to 3, press ENTER.
9. Change the HIGH alarm to 7, press ENTER.
10. Now EXIT to the main menu.
11. Ensure that the PMT temp goes to $5^{\circ}\text{C} \pm 2^{\circ}\text{C}$.
12. The modification has been completed. You will now need to perform a Zero and Span Calibration.

If there are any questions with this service note please contact a Customer Service Representative 858-657-9800 or email: api-customerservice@teledyne.com

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