

Technical Bulletin

450i Pre-Calibration Setup

Bulletin # 450i.01

Rev. 1/2016

Description: 450i Pre – Calibration Setup Procedure

450i Pre-Calibration Procedure:

1. Flow zero air to the instrument until the zero reading has stabilized.

2. Go to the calibration factors menu and reset the user cal defaults.

Note: This will set the backgrounds to Zero and the Span coefficients to 1.00

3. Go to the instrument controls menu and toggle service mode ON.

4. In the service menu scroll down to flash voltage adjustment and set the lamp voltage for 800 Volts.

Remember to press the save button!

5. While still in the service menu, scroll down to Initial Flash Reference.

Set the current reference voltage as the initial by pressing the save button.

This is now set.

This voltage should be between (2.8 volts - 4.5volts for a 43i)

Note: If voltage is > than 4.5 Volts, lower lamp voltage in order to set the Initial Flash Reference.

6. Now flow your calibration gas that you would normally calibrate the instrument for. Verify the range is correct for the gas you are flowing.

Note: If setup for dual range, use the Hi range calibration gas.

7. Allow the gas reading to stabilize and go back to the service menu and scroll down to PMT Voltage adjustment.

In this screen adjust the PMT voltage until the gas concentration matches the bottle value or the correct value after dilution.

Remember to press the save button!

8. At this point you will need to flow the zero air again.

This will be used for the zero calibration, so make sure the zero gas flows long enough for a good stable zero reading.

9. Go to the calibration menu and calibrate the background.

Zero is now calibrated.

10. Now flow the span gas and calibrate the span coefficients in the calibration menu, span is now calibrated.

The unit is now calibrated and your span coefficients should be close to 1.00

If you need any further assistance or technical information regarding this matter, please contact our Technical Support Team at 866-282-0430 (*Press 2 for Technical Support*)