

Techmark, Inc.
SOP P205-3B ESUS Inlet Door calibration procedures.
November 2013

NOTE: ESUS potentiometer- 500 ohm only.

1. Verify that the door is working properly. This entails making sure that the actuator and limit switches are adjusted correctly for fully closed and open.
2. Open and close the door twice using the knob on the RLP (relay panel).
3. With the door in the fully closed position, calibration can then begin.
4. Press button 22 on the ESUS. The display will ask for a password, which is button 10, followed by the # button.
5. Press the right arrow to go into INPUTS
6. Press the right arrow into 1:ASSIGN AN. INPUT. Then use the single down arrow to go down the list to AIR INLET. (Make sure that the correct bin is selected on the face of the ESUS) Record the number of AIR INLET for this bin here: AN. IN. _____.
7. (Optional Step)- Open the face of the ESUS and find the AIR INLET AN. IN. Remove the terminal strip and measure the resistance for that input. Replaced the terminal strip when completed.
8. Press the left arrow to go back to INPUTS and then the single down arrow and go to 3: AN-IN CALIBR.. Press the right arrow to go into this selection. AN-IN CALIBR_1 should be showing.
9. Press the double up arrow to go to the AN-IN CALIBR (AN.IN.) found in step 6. (Usually 11 or 12 but sometimes 5 or 6)
10. Record the Zr: _____ and Sp: _____ numbers for this AN.IN.
11. Enter the calibration code for the given input in the CALIBRATION CODE line. (Closed)
 - a. Input 5- 65
 - b. Input 6-81
 - c. Input 11-161
 - d. Input 12-177
12. Press the # key to accept this value and wait for the value to return to 0.
13. The Measured Val should now read 0.0
14. Open the door with the knob on the relay panel. Wait until the door fully opens.
15. (Optional Step)- Open the face of the 755 and find the AIR INLET An.In. Remove the terminal strip and measure the resistance for that input. _____. Replace the terminal strip when completed.
16. Enter the calibration code for the given input in the CALIBRATION CODE line. (Open)
 - a. Input 5- 66
 - b. Input 6-82
 - c. Input 11-162
 - d. Input 12-178
17. Press the # key to accept this value and wait for the value to return to 0.

18. The Measured Val should now read 10.0
19. Close the door with the knob on the relay panel. Wait until the door fully closes.
20. Now adjust the measured value to read 0.1 by the following steps.
21. Go to the ZR line for the An.In. that is being calibrated.
22. Press the # key and decrease the value by 2 or 3 using the Single Down Arrow. Press the # key twice until the cursor returns to the Z in ZR.
23. Check the Measured Value and make sure it read 0.1. If it does not repeat step 22 and only decrease by 1 each attempt until it reads Measured Value of 0.1
24. Press the Air Inlet Button (5) on the face of the ESUS. The Meas should read 1.
25. Open the door with the knob on the relay panel.
26. The Meas. should read 100 under Air Inlet Button (5)
27. Put the rotary knob in the AUTO position and make sure that the door returns to the Setp. Value.