Atlas Salinity Sensor Calibration Procedure - Jaia Robotics

Materials

3 small plastic bags

12800 Ms solution

80000 Ms solution

Clean water

Compressed air

Set-up

1. Label the bags with a marker: 12880, 80000, Water
2. Fill the bags roughly 2/3 to the top with the correct solution
3. Ensure the salinity probe is dry

Procedure

1. SSH into the bot
2. Run the command `sudo systemctl stop jaiabot`
3. Run the command /usr/share/jaiabot/python/atlas_scientific_ezo_ec/calibrate_atlas_oem.py
4. You should see the main menu for calibrating the salinity sensor
5. Type c to begin calibration
6. Press Enter
7. Wait until the calibration menu automatically appears
8. Enter d for dry calibration
9. Press Enter
10. Have someone hold the bot vertically and place the 12880 bag around the probe
    a. Ensure there are no air bubbles in the cavity of the probe. If there are, remove the bag and blow compressed air through the cavity to remove it.
    b. Hold the bot and bag as still as possible
11. Enter c to begin calibration
12. Press Enter
13. Wait until the calibration menu automatically appears
14. Enter l for dual point low calibration
15. Press Enter

16. Remove the 12880 bag from around the probe
17. Dry the probe with compressed air
18. Wash the probe in the bag labeled Water
19. Dry the probe with the compressed air
20. Have someone hold the bot vertically and place the 80000 bag around the probe
    a. Ensure there are no air bubbles in the cavity of the probe. If there are, remove the bag and blow compressed air through the cavity to remove it.
    b. Hold the bot and bag as still as possible
21. Enter c to begin calibration
22. Press Enter
23. Wait until the calibration menu automatically appears
24. Enter h for dual point high calibration
25. Press Enter
26. Remove the 80000 bag from around the probe
27. Dry the probe with compressed air
28. Wash the probe the bag labeled Water
29. Dry the probe with the compressed air
30. Start the JaiaBot systemd services to see the changes take place

Links

Datasheet: https://files.atlas-scientific.com/EC_oem_datasheet.pdf