Atlas Salinity Sensor Calibration Procedure - Jaia Robotics

Materials

3 spray paint can caps

12800 Ms solution

80000 Ms solution

Clean water

Set-up

1. Label the caps with a marker: 12880, 80000, Water

2. Fill the inner rim of the caps roughly 3/4 to the top with the correct solution

3. Ensure the salinity probe is dry

Procedure

1. Remove the sled from the hull of the bot

2. Attach the salinity probe to the sled

3. SSH into the bot

4. Run the command sudo systemctl stop jaiabot

5. Run the command /usr/share/jaiabot/python/atlas_scientific_ezo_ec/calibrate_atlas_oem.py

6. You should see the main menu for calibrating the salinity sensor

7. Type c to begin calibration

8. Press Enter

9. Wait until the calibration menu automatically appears

10. Enter d for dry calibration

11. Press Enter

12. Place the probe into the 12880 cap

13. Enter c to begin calibration

14. Press Enter

15. Wait until the calibration menu automatically appears

16. Enter l for dual point low calibration

17. Press Enter

18. Remove the probe from the 12880 cap

19. Allow the probe to dry for a short amount of time

20. Wash the probe in the cap labeled Water

21. Allow the probe to dry for a short amount of time

22. Place the probe into the 80000 cap

23. Enter c to begin calibration

24. Press Enter

25. Wait until the calibration menu automatically appears

26. Enter h for dual point high calibration

27. Press Enter

28. Remove the probe from the 80000 cap

29. Allow the probe to dry for a short amount of time

30. Wash the probe the cap labeled Water

31. Allow the probe to dry for a short amount of time

32. Start the JaiaBot systemd services to see the changes take place

Links

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