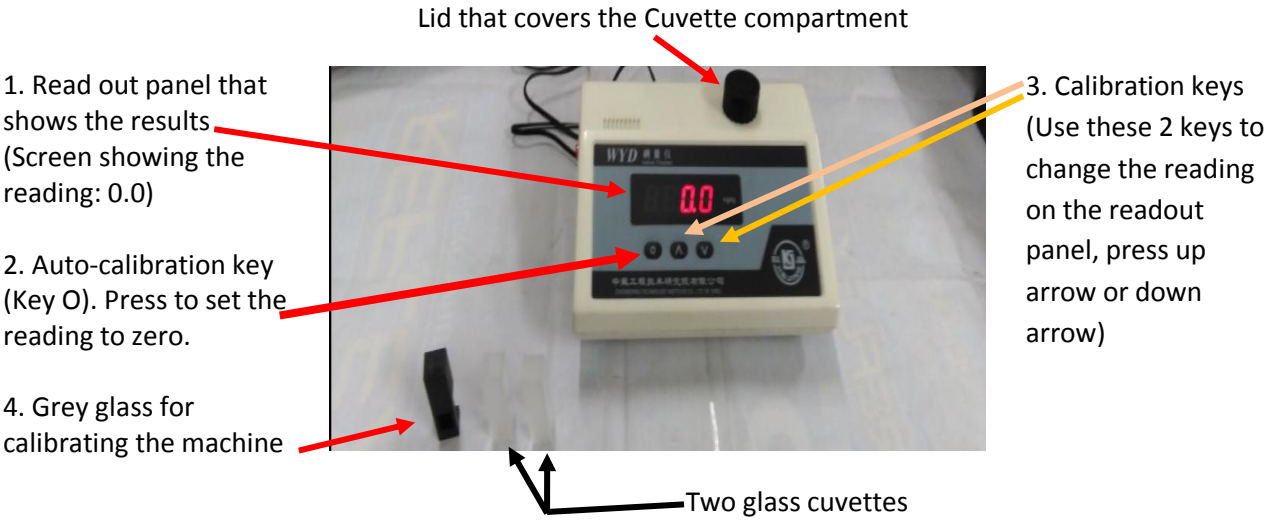
HOW TO CALIBRATE THE WYD CHECKER MACHINE USING THE GREY GLASS



CALIBRATION OF THE WYD CHECKER MACHINE USING THE GREY GLASS:

1. Connect the WYD machine to the power socket and switch on the machine; (the machine MUST be switched-on and allowed to worm-up for about 20 minutes before use)
2. **Open the lid of the cuvette compartment in the WYD machine,**
3. **Insert the cuvette containing distilled water then close the lid**.
4. **Press the Auto-calibration Key (key O),** the read out panel with show the **reading 0.0 on the screen**, just as you can see on the WYD machine in this picture;
5. **Open the lid and REMOVE THE CUVETTE WITH WATER**;
6. **NOW INSERT THE GREY GLASS AND CLOSE THE LID**.
7. **Record the value on the screen**. The expected value should be the value that was given to you for that machine.
8. **If you do not remember the value, use Calibration keys (up-down keys) to set the value to 50.0**
9. **Open the lid and REMOVE THE GREY GLASS; that is the end of the Calibration;**
10. **DO NOT TOUCH ANY OF THE KEYS ON THE MACHINE AFTER THE CALIBRATION IS OVER**

You can now proceed with the analysis as indicated below

ANALYSIS OF SALT SAMPLE AFTER CALIBRATION OF WYD MACHINE WITH THE GREY GLASS

PREPARATION OF A SALT SAMPLE FOR ANALYSIS

1. Weigh 1.0 $\pm$ 0.05 g of the salt sample and put in a 50 ml volumetric flask (note: it is important that the salt be properly mixed before weighing);
2. Add about 20 ml of distilled water into the volumetric flask;
3. Shake the flask until all the salt is dissolved,
4. Add 2.0 ml of solution A (Specially prepared starch solution),
5. Add 2.0 ml of solution B (Sulphuric acid (H_2SO_4) solution),
6. Shake the flask after each solution is added;
7. Add distilled water into the flask to make the volume up to 50 ml,
8. Shake/mix thoroughly to obtain a uniform solution,
9. Pour some of the solution into the glass cuvette (do not over fill the cuvette);
10. Open the lid of the cuvette compartment;
11. Insert the glass cuvette in the compartment and close the lid;
12. **DO NOT TOUCH ANY OF THE KEYS!!**
13. Record the reading displayed on the Screen;
14. The reading is in mg/kg (ppm) (i.e. mg of iodine per kg of salt);
15. Open the lid and remove the glass cuvette containing the solution;
16. Empty the glass cuvette;
17. Pour the next salt solution into the glass cuvette, then again open the lid insert the cuvette, close the lid and just record the reading displayed on the screen;
18. Do the same for all the other salt solutions that you have prepared for analysis;