

5041 Pocket ORP Tester Operation Manual


I. Technical Parameters:

1. Range: $\pm 1000\text{mV}$
2. Resolution: $\pm 1\text{mV}$
3. Accuracy: $\pm 0.5\% \text{F.S}$
4. Power: AAA Batteries x 2, for more than 100 consecutive hours.
5. Dimension and Weight: $39 \times 25 \times 176\text{mm}$ / 87g
6. Waterproof rating: IP57

II. Operations:

1. Rinse the electrode with pure water and wipe it dry. Immerse the electrode in the sample solution. Stir gently and wait until a stable reading can be obtained.
2. After measurement, rinse the electrode with pure water, wipe it dry and replace the protection cap.

III. Notes:

1. The sponge in the protection cap should be always kept wet by adding pure water (but not too much to outflow) for keeping the activation of the electrode.
2. No need calibration for ORP measurement. If the user is not sure about the instrument performance or measuring result, test ORP standard solution to see whether ORP electrode or meter is proper. ORP standard solution can be purchased separately.
3. After ORP electrode is used for long time, the platinum surface will be polluted which results in inaccurate measurement and slow response. In this case, user can use the following methods to clean and activate the electrode:
 - (a) For inorganic pollution, immerse the electrode into 0.1mol/L dilute hydrochloric acid for 30 minutes, then wash it with pure water, and immerse it into the electrode soaking solution for 6 hours before using.
 - (b) For organic oil stain and oil membrane pollution, wash the platinum surface with detergent and then with pure water, and immerse it into the electrode soaking solution for 6 hours before using.
 - (c) For the platinum surface badly polluted with oxidized film, polish the surface with toothpaste, then wash it with pure water, and immerse it into the electrode soaking solution for 6 hours before using.
4. ORP electrode can be replaced. Replacing method: twisting counterclockwise off the electrode by 7-8 times, pulling out the electrode slowly and inserting the new electrode slowly and twisting clockwise until it fits tightly. Attention: pulling out and inserting the electrode slowly. There is 8mm screw thread on the head of electrode. To avoid silicon ring to fall off, when going through the screw thread, pulling out the old electrode while twisting counterclockwise and inserting the new electrode while twisting clockwise. The model of electrode is 301-G ORP combination electrode.
5. The instrument will be power off automatically without operation after 10 minutes.
6. Change a new battery when icon “” appears on LCD.

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