

YD300 Portable Water Hardness Meter

Quick Start Manual







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1. Electrode Activation




- a) For first-time use — shake electrode with force to let the inner solution of electrode fall into the measuring head compartment; there should NOT be any bubbles within the measuring head. Pour a small amount of soaking solution into the soaking solution vial, and soak the electrode for 30 minutes.
- b) Regular Usage — The activation time only takes 10 to 15 minutes for a frequently used electrode. As long as the reading is stable, users can start to perform calibration and measurements (please note that the readings without electrode being immersed in solutions are random).

2. Calibration (take B2, B3 calibration and mmol/L as an example)




- 1) Power on the meter. Press , **Cal /** and  icons appear and are flashing at the same time, indicating the meter enters 1st point calibration; the calibration solution is B2.
- 2) Rinse the electrode in distilled/deionized water and shake off excess water; insert the electrode into B2 calibration solution and gently stir the electrode for a few seconds and let it stand still; Wait for the reading to fully stabilize (about 2 minutes).
- 3) Then press  to confirm calibration, “**2.00×10-1mmol/L**” icon starts flashing (see picture (4-3), indicating 1st point calibration will be finished after approximately 20 seconds. During the icon flashing, do NOT press any key.
- 4) **NOTE:** The reading may be temporarily stable in about 30 seconds, but we recommend waiting about 2 minutes for the reading to get fully stabilized before pressing  to confirm calibration. This practice will significantly improve the accuracy of calibration.
- 5) Then **Cal**  and  icons will appear and start flashing, indicating the meter enters 2nd point calibration mode; the calibration solution is B3.



- 6) Rinse the electrode in distilled/deionized water and shake off excess water; insert it into B3 calibration solution; stir the electrode for a few seconds and let it stand still. Wait for the reading to fully stabilize (about 2 minutes).
- 7) Press  button to confirm the 2nd point calibration, “**2.00 and mmol/L**” icon starts flashing (see picture (4-4)); calibration will be finished after approximately 20 seconds. During the icon flashing, do NOT press any key. The meter then returns to measurement mode.
- 8) To verify the calibration quality: Rinse the electrode in distilled/deionized water and shake off excess water; then put it into the B2 solution, stir for a few seconds and let it stand still; Take the reading after  appears and stays; The reading should be close to $2.00 \pm 0.25 \times 10^{-1}$ mmol/L. Otherwise, please repeat the calibration process.

3. Sample Test

Pour your sample solution into the #1 or #2 sample vial (bottle). Rinse electrode with distilled/deionized water and shake off excess water; insert the probe into sample solution, stir gently and let it stand still; when  icon appears and stays, take the reading. Press  to save the measurement data. Press  to switch to other units.

4. Parameters Setting

When the meter is powered on and in measurement mode, long press  (>2 seconds) to enter parameter setting mode. Short press  to change the parameter; Press  to confirm the change and return to measurement mode.

Prompt	Parameter setting items	Parameter
P1	Calibration Method Setting	 
P2	Resolution Setting	0.01-0.1
P3	Temperature Unit Setting	°C-°F
P4	Activity Compensation Setting	OFF-On
P5	Backlight Automatically Off Setting	OFF-On
P6	Automatic Power Off	OFF-On
P7	Default Setting	OFF-On

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- d) Regular Usage — The activation time only takes 10 to 15 minutes for a frequently used electrode. As long as the reading is stable, users can start to perform calibration and measurements (please note that the readings without electrode being immersed in solutions are random).

2. Calibration (take B2, B3 calibration and mmol/L as an example)




- 9) Power on the meter. Press **CAL**, **Cal /** and **B2** icons appear and are flashing at the same time, indicating the meter enters 1st point calibration; the calibration solution is B2.
- 10) Rinse the electrode in distilled/deionized water and shake off excess water; insert the electrode into B2 calibration solution and gently stir the electrode for a few seconds and let it stand still; Wait for the reading to fully stabilize (about 2 minutes).
- 11) Then press **CAL** to confirm calibration, “**2.00×10-1mmol/L**” icon starts flashing (see picture (4-3), indicating 1st point calibration will be finished after approximately 20 seconds. During the icon flashing, do NOT press any key.
- 12) **NOTE:** The reading may be temporarily stable in about 30 seconds, but we recommend waiting about 2 minutes for the reading to get fully stabilized before pressing **CAL** to confirm calibration. This practice will significantly improve the accuracy of calibration.
- 13) Then **Cal /** and **B3** icons will appear and start flashing, indicating the meter enters 2nd point calibration mode; the calibration solution is B3.



- 14) Rinse the electrode in distilled/deionized water and shake off excess water; insert it into B3 calibration solution; stir the electrode for a few seconds and let it stand still. Wait for the reading to fully stabilize (about 2 minutes).
- 15) Press  button to confirm the 2nd point calibration, “**2.00 and mmol/L**” icon starts flashing (see picture (4-4)); calibration will be finished after approximately 20 seconds. During the icon flashing, do NOT press any key. The meter then returns to measurement mode.
- 16) To verify the calibration quality: Rinse the electrode in distilled/deionized water and shake off excess water; then put it into the B2 solution, stir for a few seconds and let it stand still; Take the reading after  appears and stays; The reading should be close to $2.00 \pm 0.25 \times 10^{-1}$ mmol/L. Otherwise, please repeat the calibration process.

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Pour your sample solution into the #1 or #2 sample vial (bottle). Rinse electrode with distilled/deionized water and shake off excess water; insert the probe into sample solution, stir gently and let it stand still; when  icon appears and stays, take the reading. Press  to save the measurement data. Press  to switch to other units.

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