

How to Calibrate Your pHoenix XL

1 Navigate to the Calibration Screen.

- At the Measure screen, press the MENU button.
- Move to Calibrate (▲ and ▼ moves the cursor). Press the SEL button.
- If using Mesa Labs Combination Solution, select Both (14-7). If using separate conductivity and pH solutions, select appropriately.
- For Conductivity calibrations, the High selection includes 14.0 mS, 100 mS and 50 mS solutions. The Low selection includes 150 µS and 1000 µS solutions.

2 Connect, Flush and Draw:

- Connect the meter to the standard solution; do not over-tighten.
- When introducing a different solution to the meter use three rapid 3 to 5 mL flushes to purge remaining fluid and air bubbles from previous solutions.
- Remember when in calibration mode, you are looking for a consistent, stable reading. You are not necessarily looking for the correct answer to be displayed (I.e., the exact number you see on the standard solution bottle).
 - A stable reading is a reading that is no longer trending up or down, and the final digit of the reading has either stopped or is toggling between numbers. Stable readings can only be identified when pulling solution into the meter, not during the expel.
- Slowly draw solution in at 1 mL per second. Speed is important; the meter responds best to a slow, steady draw. Monitor the display for a stable reading. When you have reached the 10 mL mark, rapidly expel the solution. Repeat the 1 mL per second draw until you obtain a stable reading.



3 Stabilize, Save and Verify:

- When you have maintained a stable reading for 2-4 seconds, while still pulling the syringe steadily, press SEL to save your calibration value. Your meter will automatically adjust the numbers for you, there is no manual adjustment! Only press SEL while pulling the syringe, not during the expel or after stopping.
- We recommend that you verify your meter against solution values after calibrating your meter.

