


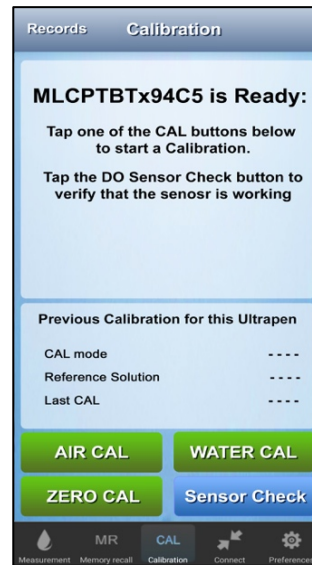
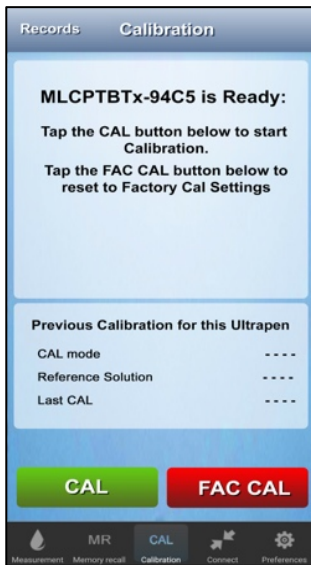
ULTRAPENx2™ PTBT5 – Basic Calibration Instructions

Instructions for Performing a Sensor Check or Air Calibration of the PTBT5

PTBT5 AIR CALIBRATION

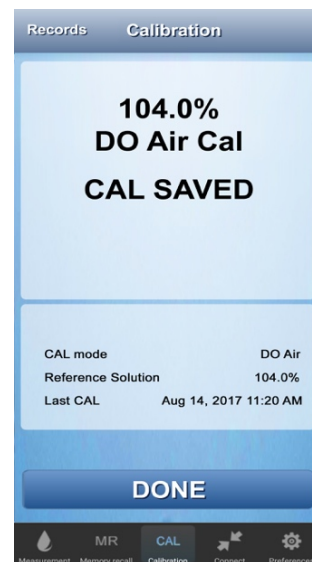
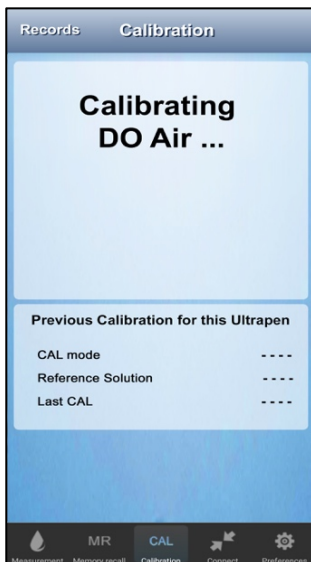
This is the basic calibration process for the PTBT5:

1. Remove the protective / hydration cap from the DO sensor.
 - When removing or replacing the cap, gently wiggle it back and forth while pulling / pushing. **DO NOT twist!**
2. Dip the sensor in clean DI, RO, or purified water.
3. **CAREFULLY** blot the sensor membrane with a soft, clean, lint-free cloth or tissue to remove any water drops.
4. Fill the protective / hydration cap with enough DI, RO, or distilled water to soak the sponge inside.
5. Hold the PTBT5 upright with the DO sensor down and insert the sensor into the hydration cap.
 - Make sure there is a good seal between the sensor and the cap.
 - **DO NOT** insert the sensor so far that the vent hole is covered.
6. Press and release the push button to turn the PTBT5 ON.
7. Tap the CAL button  in the Feature Navigation Bar.



8. The Initial CAL screen will appear.
9. Tap the CAL button.

10. On the Secondary CAL screen, tap the AIR CAL button.



11. The PTBT5 will perform the AIR calibration.

12. When the calibration is done the App displays the values and saves a CAL record.

13. Tap the DONE button to return to the Initial CAL screen.

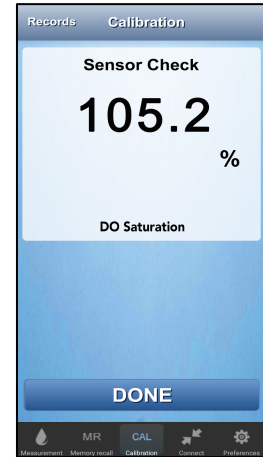
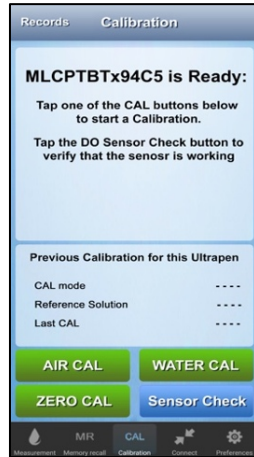
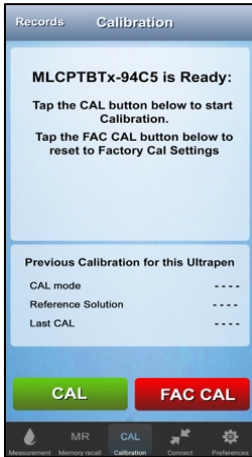
14. **Verification:** Perform a saturation measurement with the hydration cap in place. The result should be 104% ± 2%.

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PTBT5 SENSOR CHECK

1. Follow the Air Calibration Steps 1 through 7 above.



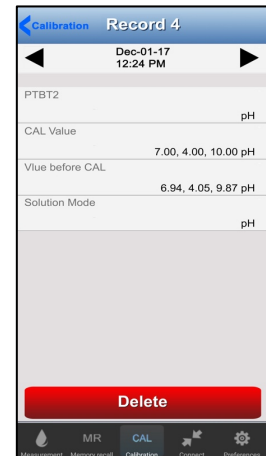
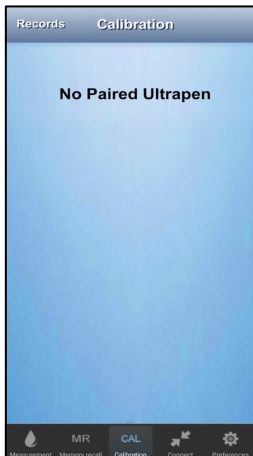
2. When the Initial CAL screen appears, tap the CAL button.
3. On the Secondary CAL screen, tap the **Sensor Check** button.
4. The App will display the raw DO Saturation value.
5. The value displayed will include temperature compensation, but no calibration constant will have been applied.
6. The sensor is **GOOD** if the value displayed is $\geq 57.5\%$.
 - If the value reported is $< 57.5\%$, the App will display an ERROR message.
7. Tap the **DONE** button to return to the Initial CAL screen.



REVIEWING PTBT5 CALIBRATION RECORDS

The PTBTX2 App automatically records all calibrations. To review these CAL Records:

1. Tap the CAL button  in the Feature Navigation Bar.

- NOTE: The PTBTX2 App does not have to be connected to an active Ultrapen to review calibration records.



2. When the Initial CAL screen appears, tap the **RECORDS** button.
3. The CAL Records list will appear.
4. If there are more calibration records on the list than can be viewed at one time, **SWIPE UP** or **DOWN** to view other records in the list.
5. Tap an individual record to open the file.
6. The calibration record will open and be displayed.
7. Tap the  to display the next record in the list.
8. Tap the  to display the previous record in the list.
9. A **RED Delete** button at the bottom of the screen can be used to delete this record.