

Sensor 01 Calibration

Purpose

This document outlines the steps to calibrate the Liquidtool Sensor 01 to ensure accurate coolant concentration measurements or confirm proper calibration.

For assistance, please contact Liquidtool Support <https://liquidtool.com/en/contact/support-message/>.

Required Equipment

- A well-calibrated and clean handheld refractometer.
- Access to the Liquidtool Manager web application: <https://platform.liquidtool.com>.

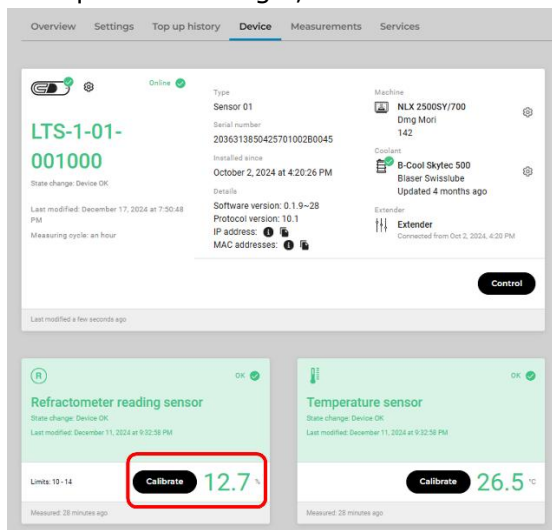
Preparation

- Verify there are no warnings or errors in Liquidtool Manager indicating contamination of the Sensor 01. If needed, clean the sensor before proceeding.

Tip: For calibrating the temperature sensor, use a thermometer instead of a refractometer and calibrate the Temperature sensor instead.

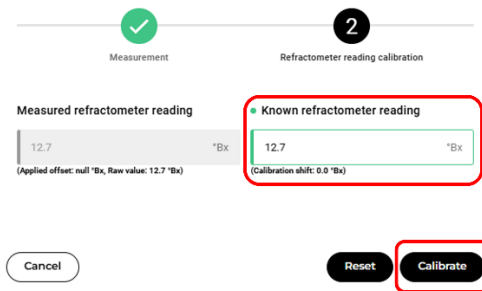
Calibration Steps

1. Manual coolant measurement
 - Use the refractometer to take a manual measurement of the coolant at the same point where the Liquidtool Sensor 01 is measuring
2. Calibrate the Sensor 01
 - In Liquidtool Manager, click on "Calibrate."



- The Sensor 01 will take a measurement (this may take up to a minute).
- Compare the manual Bx value (from the refractometer) with the **Measured refractometer reading** displayed by Sensor 01.
- Adjust the **Known refractometer reading** to match your manual measurement.
- Click "Calibrate" to confirm the adjustment.

Refractometer reading calibration



The interface shows a two-step calibration process. Step 1, 'Measurement', is completed with a green checkmark. Step 2, 'Refractometer reading calibration', is active and highlighted with a black circle containing the number '2'. Below the steps, there are two input fields. The first, 'Measured refractometer reading', contains the value '12.7' °Bx and has a note '(Applied offset: null °Bx, Raw value: 12.7 °Bx)'. The second, 'Known refractometer reading', also contains '12.7' °Bx and has a note '(Calibration shift: 0.0 °Bx)'. This second field is highlighted with a red rectangle. At the bottom, there are three buttons: 'Cancel', 'Reset', and 'Calibrate'. The 'Calibrate' button is highlighted with a red rectangle.

Measurement 2 Refractometer reading calibration

Measured refractometer reading Known refractometer reading

12.7 °Bx 12.7 °Bx

(Applied offset: null °Bx, Raw value: 12.7 °Bx) (Calibration shift: 0.0 °Bx)

Cancel Reset Calibrate

3. Verify results

- Verify that the newly adjusted value is correct and within the expected range.

Tip: A deviation of ± 0.3 °Bx is acceptable and within the standard precision of the Liquidtool Sensor 01.