

Quick Start Guide for Vinmetrica SC-200™

Calibration of pH:

1. With the pH electrode attached, select CAL mode by pressing the MODE button.
2. Unscrew the storage vial and rinse the pH electrode with distilled water. Insert into titration vessel containing either member of your pH calibration set (either pH 4 or pH 7 solution). (Figure 1)



Figure 1



Figure 2

3. The instrument will display the apparent pH value and the "CAL" LED flashes when calibration for this value is ready. Press ENTER to accept the calibration (Figure 2).

4. The display should read 'Good CAL' and four beeps are rapidly sounded to indicate success. If an error occurs, the screen will read 'BAD CAL' and a single beep will sound. The instrument will wait for a stable pH level. Repeat step 3.



Figure 3

5. Rinse the electrode and place it in the second member of the calibration set. Repeat the process until the 'Good CAL' message displays.
6. Navigate to either pH or TA using the MODE button (Figure 3).

Cap and seal all reagents and store in a dark, cool location. When finished testing, return pH electrode to pH storage solution vial and ensure vial is properly attached.

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Measuring pH:

1. With the pH electrode attached, rinsed and the device properly calibrated (see "Calibration of pH), select pH mode using the MODE button.
2. Allow pH to stabilize approx 10-15 seconds and read the value.

Titrateable Acidity (TA):

1. With the pH electrode attached and the device turned on and calibrated (see "Calibration of pH), select TA mode using the MODE button.
2. Fill syringe with TA titrant (0.133N NaOH) and set the plunger at 5.0mL.
3. Place 5mL wine in the titration vessel and add about 15mL DI water.
4. Rinse the electrode and place in the titration vessel. The pH should be 4.00 or less.
5. Titrate by adding the TA dropwise from the burette (Figure 4).
6. Stop when pH stays above 8.2 and the red light and beeper sound for longer than 20 seconds.
7. Calculate TA



Figure 4

$$TA \text{ (g/L tartaric)} = 2 * V$$

Where V is 5mL minus the endpoint on the syringe (mL).

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