Get Your pH on Point

Calibrate Effectively

Preparation

a. **Switch on the pH meter** and select the correct buffer group.

b. Enter the **correct temperature** for the buffers if no automatic temperature capture is done.

c. Pour a sufficient amount of each **buffer solution into a clean beaker.**

d. **Rinse the electrode** with distilled or deionized water. For refillable electrodes: Ensure that the electrolyte filling hole is open.

Calibration

a. Immerse the electrode into the **first buffer solution** and start the calibration on the pH meter. Start with the lowest pH value.

b. Wait until the measurement has **reached the endpoint.**

c. Take the electrode out of the buffer solution and **rinse** it.

d. Add calibration points by repeating steps a-c with the next buffer solution. Once complete, **end the calibration** on the pH meter.

Electrode in good condition

Electrode requires cleaning soon

Electrode requires cleaning and/or regeneration

Electrode is worn out and needs to be replaced

Evaluation

a. **Review the calibration results** on the meter:

Slope \ Offset	± (0 – 20) mV	± (20 – 35) mV	> ± 35 mV
95 – 105%			
90 – 95%			
85 – 90%			
< 85% or > 105%			

b. **Save the calibration** if it is acceptable. The electrode is now **ready** for your measurements.

c. If no acceptable calibration can be achieved, visit our **TroubleShooter** and sensor handling movies on: ▸ **www.electrodes.net**

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