Calibration Procedures SensION2 Portable pH Meter

Step 1

Prepare 4.01 (red), 7.00 (yellow), and 10.01 (blue) buffer solutions – one pillow packet for each 50 mL container of distilled water. Make sure the containers are clean before you begin.

Step 2

Twist off storage cap from electrode.

Step 3

Pump button on probe until gel solution is visibly coating membrane tip. Gel comes out of hole which looks as though you could stick a common pin into it.

Step 4

Insert electrode into 4.01 buffer solution.

Step 5

Press the blue I/O exit button to turn meter on.

Step 6

Press the cal button. The display should show CAL in upper left hand corner and a 1? in the upper right hand corner along with the word Standard.

Step 7

Press the blue READ/ENTER button. The word Stabilizing... will blink in upper left hand corner. Wait for series of beeps (some meters no longer beep). The 1? should change to 2?.

Step 8

Remove probe from buffer, rinse with distilled water. Insert electrode into 7.00 buffer solution.

Step 9

Press the blue READ/ENTER button. The word Stabilizing... will blink in upper left hand corner. Wait for series of beeps (some meters no longer beep). The 2? should change to a 3?.

Step 10

Remove probe from buffer, rinse with distilled water. Insert electrode into 10.01 buffer solution.

Step 11

Press the blue READ/ENTER button. The word Stabilizing... will blink in the upper left hand corner. Wait for a series of beeps (some meters no longer beep).

Step 12

Check the slope value. This number must be \pm 3 mV from -58 mV.

<u>Step 13</u>

Press the blue READ/ENTER button to save a successful calibration only. Otherwise hit the blue I/O exit button and begin again.

If you are unsuccessful in calibrating, re-mix your buffer solutions before beginning again. Be sure to completely rinse out the containers, and wipe them out if necessary so that they are clean to begin with.

<u>Step 14</u>

Record calibration information onto field data sheet (both successful and any unsuccessful attempts).

<u>Step 15</u>

Turn meter off unless ready to take a reading. Secure buffer solutions for transport.

sensION2 Portable pH Meter Keypad