

Conditioning Before First Use

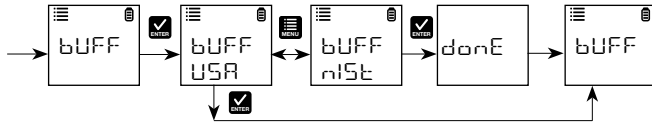
The pH sensor must be hydrated to perform properly. If the pH electrode has been stored dry, soak as long as needed to re-hydrate the sensor. Electrode storage solution works best, followed by pH buffer solution, followed by tap water. 10 minutes is usually adequate but it may take much longer if the bulb is extremely dry. The transparent cap can be used for soaking and storage. Keep upright for best results. Never store the sensor for extended periods of time in deionized water.

Measurement

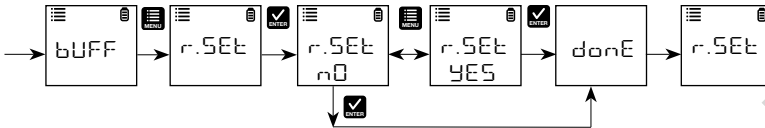
1. Remove the cap and press the to power on the tester.
 2. Dip sensor in at least 20mm of test solution or up to the MAX fill line of the cap.
 3. Stir gently while the reading stabilizes and wait for the to stop blinking.
 4. The will appear on the display indicating that the reading is stable and measurement is complete.
- Note: The tester automatically shuts off after 8.5 minutes of non-use to conserve batteries if you forget to turn it off.*

Menu (To Change Settings)

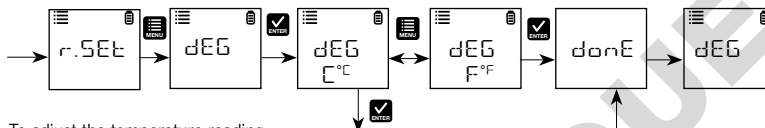
Press to begin, and to leave the menu at anytime. Press to return to the measurement mode. To choose USA (4.0, 7.0, 10.0) or NIST (4.0, 6.9, 9.2) buffer values for automatic calibration:



To reset the calibration to factory default condition:



To change celsius / fahrenheit temperature unit:



To adjust the temperature reading:



Calibration

For best results, periodic calibration with accurate buffers is recommended prior to measurement. Use up to 3 standards and bracket your intended measuring range in any order. The tester will return to measurement after each calibration point and retain the calibration when the instrument is powered off.

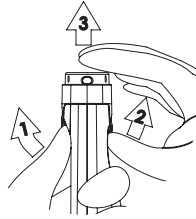
1. Remove the cap and press the to power on the tester.
2. Dip the sensor in at least 20mm of pH buffer.
3. Stir gently and press to begin the pH calibration.
4. The display will show followed by the default pH value. is indicated on the display during calibration mode.
5. The will stop blinking when the pH reading is stable.
6. The is displayed when the automatic buffer value has been detected.
7. After 3 seconds, the tester will automatically calibrate the value. Alternatively, pressing will also accept the value manually. Tester will show to confirm the calibration.
8. To calibrate additional point(s), repeat with additional pH buffers.
9. To abort pH calibration, press to escape.

Useful Notes

1. To avoid cross contamination, rinse with clean water between samples and calibration standards.
2. For long-term storage, fill the cap with 20 mm of storage solution (NOT de-ionized water). This will keep the sensor conditioned and ready for next use.
3. **Not recommended** for prolonged use with solutions containing heavy metals, proteins, tris buffer, or sulfides which will clog the junction leading to slow response and eventual failure.

Changing Batteries (4) A76 or LR44 button cell type

1. Holding the tester with one hand, slide in the thumb to clear the front catch.
2. While still holding the tester, slide in the other thumb to clear the back catch.
3. With both catches are cleared, vertically slide the battery cover off the tester.
4. Change the batteries noting the polarity (flat positive side to the left). Replace the battery cover onto the tester with the shorter tab above the display locking the front and back to ensure a watertight seal.



Maintenance

1. Rinse sensor with clean water after each use.
2. Clean the sensor with a soft brush and mild dish soap to remove dirt and grease.

Error Messages

1. - Batteries are weak and need replacement soon.
2. (low battery) - The battery power is too low to power on the instrument and requires immediate replacement.
3. (stabilizing error) - Appears when calibration is attempted but the reading is not yet stable. Wait for the reading to stabilize or manually confirm the calibration by pressing enter.
3. (buffer error) - The buffer is outside of the calibration range.
4. (slope error) - The 2nd or 3rd calibration point is not within 80% to 120% slope range.
5. (over range) - The reading is above the measuring range of tester.
6. (under range) - The reading is below the measuring range of tester.

Testers and Accessories Order Information

| Ordering Code | Product Description |
|--|---|
| Pocket Tester | |
| EXPERTPH | pH pocket tester with batteries |
| pH Buffer Solutions and Sachets | |
| ECBU4BT | Colourless pH 4.01, 480 mL |
| ECBU7BT | Colourless pH 7.00, 480 mL |
| ECBU10BT | Colourless pH 10.01, 480 mL |
| ECPHBUFKIT | Colourless pH buffer set, pH 4.01, 7.00, 10.01, 480 mL each |
| ECBU4BS | pH 4.01 (NIST traceable), box of 20 x 20 mL sachets |
| ECBU7BS | pH 7.00 (NIST traceable), box of 20 x 20 mL sachets |
| ECBU10BS | pH 10.01 (NIST traceable), box of 20 x 20 mL sachets |
| ECRINWT | pH deionized water (NIST traceable), box of 20 x 20 mL sachets |
| ECBU4710R | pH buffer sachet set, pH 4.01, 7.00, 10.01, deionized water, 5 x 20 mL each |
| Storage and Cleaning Solutions | |
| ECRE005 | Storage solution for pH sensor, 480 mL |
| ECDPCBT | Protein remover solution, 480 mL |
| Other Accessories | |
| EXPERTCAP | Replacement sensor cap |
| LANYARD | Tester lanyard |

Warranty

This instrument is supplied with a warranty against manufacturing defects for a period of one year from the date of purchase.