OAKTON® pH Wand® Instructions

pH Wand® Instructions

Before you Begin:

If necessary, remove plastic strips between batteries and contacts.

Electrode Information

You can use the pH Wand® with any pH Wand electrode. **pH Wand electrodes feature a modified BNC connector.** Refer to the electrode manual for instructions for your specific electrode.

To connect the Testr to your electrode, align the posts of the testr's connector with the slots on the electrode's connector. Push together and twist the electrode connector 1⁄2 turn until it clicks into place.

Before use, remove electrode cap. To condition electrode, immerse in electrode storage solution or tap water for at least 30 minutes before use. DO NOT use de-ionized water.

Calibration

Calibration should be done regularly, typically every day that the Testr is used. You can calibrate at up to 3 points (pH 4, 7, and 10).

1. Press ON / OFF button to switch unit on.
2. Dip electrode into chosen buffer. Wait for readings to stabilize.
3. Press CAL button to enter Calibrate (CA) mode. 'CA' flashes on the display. Then, a pH value close to the pH buffer value will flash repeatedly.
4. After about three minutes **press the HOLD/CON button** to confirm calibration. The display will show 'CO' and then switch to the buffer value reading.
5. Repeat with other buffers if necessary. Rinse electrode in tap water before dipping into next buffer.

Calibration Troubleshooting:

Failure to press HOLD/CON to confirm calibration (step 4). Pressing the CAL button will resume measuring mode but will not enter the calibration value.

Failure to re-hydrate the electrode. A dry electrode will give fluctuating readings while it rehydrates in a buffer, causing errors.

pH Testing:

1. Remove cap from electrode. Switch unit on (ON / OFF button).
2. Dip the electrode into the test solution. Stir once and let the reading stabilize.
3. Note the pH or press HOLD / CON button to freeze the reading. Press HOLD / CON again to release the reading.
4. Press ON / OFF to turn off Testr. If you do not press a button for 8.5 minutes the Testr automatically shuts off to conserve batteries.

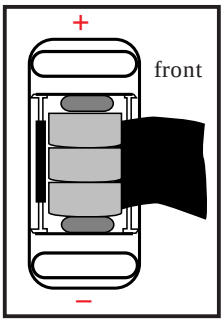
Instrument Maintenance:

- **Never immerse the Testr body in solution! This will damage instrument electronics!**
- Rinse the electrode with tap water or electrode storage solution after each measurement.
- When finished using electrode, fill electrode cap with tap water or electrode storage solution and replace cap.
- In aggressive chemicals, dirty or viscous solutions, and solutions with heavy metals or proteins, take readings quickly and rinse electrode immediately afterward.

NOTE: Electrode life is dependent care. If it is exposed to materials that contaminate the reference junction, electrode life will be shortened.

Replacing batteries:

1. Flip up battery compartment lid.
2. Remove old batteries; replace with fresh ones. Note polarity (shown in battery compartment and in picture at right).
3. Recalibrate Testr after battery change.



Error Messages:

ER1 Weak batteries—replace

ER2 Wrong or bad buffer value, or electrode is failing.

OR Over range signal, or electrode is not in contact with solution, or electrode is failing.

Specifications

	pH Wand
Range	0.00 to 14.99 pH
Resolution	0.01 pH
Accuracy	±0.01 pH
Calibration	up to 3 points (pH 4.0, 7.0, 10.0)
ATC	Yes
Operating Temperature	0 to 50°C (32 to 122°F)
Functions	ON / OFF; HOLD; CA (Calibrate); CO (Confirm display); auto-shutoff after 8.5 min. of nonuse
Power	Three 1.5 V batteries (included). 20 hours continuous use (approx. 600 tests per battery set)
Dimensions	5.9" x 1.7" x 1" (151 x 42 x 24 mm)
Weight	3.25 oz (90 gms)

Warranty:

The pH Wand meter body is warranted against defects in materials and workmanship for a period of 12 months from the date of purchase. If repair, adjustment or replacement is necessary and has not been the result of abuse or misuse within the 6 month period, please return the Testr—freight pre-paid—and correction will be made without charge. Out of warranty products will be repaired on a charge basis.

Return of Items:

Authorization must be obtained from your OAKTON Distributor before returning items for any reason. When applying for authorization, please include information regarding the reason the item(s) are to be returned.

Note: We reserve the right to make improvements in design, construction and appearance of products without notice. Prices are subject to change without notice.