

OAKTON® ORPTestr BNC Instructions

Before you Begin:

If necessary, remove plastic strips between batteries and contacts.

Electrode Information

You can use the ORPTestr BNC with any ORP electrode with a BNC connector. Refer to the electrode manufacturers' conditioning, care, and use instructions for your 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 is not necessary unless exact readout agreement with a work standard and at a specific ORP value is needed. To calibrate:

1. Switch unit on (ON/OFF button).
2. Select a known solution sample from the actual process as near the critical ORP value as possible.
3. Dip conditioned electrode into solution for 2 to 5 minutes until the readings stabilize.
4. Press CAL/CON button to enter Calibrate mode. 'CA' flashes on the display, then an ORP value close to the solution value flashes.
5. Wait at least 30 seconds (about 30 flashes) for the reading to stabilize. Press the HOLD/INC button repeatedly to adjust reading to match value of the known solution sample.
6. Press CAL/CON button to confirm offset adjustment. The display will show 'CO' and then switch to an offset ORP reading.
7. Rinse electrode in tap water before measuring other solutions.

NOTE: This offset adjustment defaults to factory calibration when batteries are removed/replaced.

ORP 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 for 2 to 5 minutes.
3. Note the ORP 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.

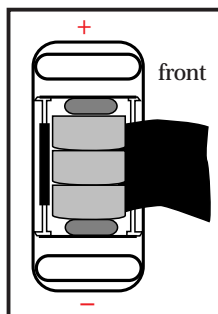
Instrument Maintenance:

- **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.

Changing 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 Electrode is failing.

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

Specifications

	ORPTestr
Range	-50 to +1050 mV
Resolution	5 mV
Accuracy	±5 mV
Calibration	offset adjustment of ±150 mV
ATC	No
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). 55 hours continuous use (approx. 1650 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 ORPTestr BNC meter body is warranted against defects in materials and workmanship for a period of 12 months from the date of purchase; the electrode is warranted for a period of 6 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 time period, please return the Testr—freight prepaid—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.