OAKTON® Waterproof TDSTestr+ Series Instructions

Before you Begin

Remove electrode cap. Soak electrodes for a few minutes in alcohol to remove oils.

TDS Testing

1. Remove electrode cap. DO NOT remove white plastic cup insert. Switch unit on (ON / OFF key).
2. **To take dip-style readings:**
   Dip electrode into test solution. Make sure sensor is fully covered.
   To take cup-style readings:
   Fill electrode cup with sample of test solution.
3. Wait for reading to stabilize (Automatic Temperature Compensation corrects for temperature changes). Note reading.
4. Press ON / OFF to turn off Tester. Replace electrode cap. Note: Tester automatically shuts off after 8.5 minutes of nonuse.

HOLD function

Press HOLD key to freeze display. Press HOLD again to release.

Temperature readings

Press MODE key to toggle from temperature (°C) to TDS display.

Calibration

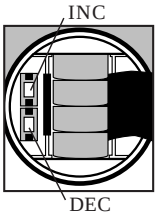
Tester is factory calibrated. However, to ensure accuracy, calibrate TDS and / or °C on a regular basis.

TDS: Select a calibration standard appropriate for your TDSTestr +
TDSTestr Pure+: from 10 ppm to 99.9 ppm
TDSTestr Low+: from 200 ppm to 1999 ppm
TDSTestr High+: from 2 ppt to 10.00 ppt

It is best to select a standard close to the test solution value.

°C: Place Tester probe in a constant temperature bath. Compare to a known accurate thermometer also in the bath.

Important: Calibrate tester using the same testing method you primarily work in (either cup style or dip style).



1. Open battery compartment lid (end with lanyard loop). The two white buttons are Increment (INC) and Decrement (DEC) calibration keys.
2. Rinse electrode in deionized water, then rinse it in calibration standard, then dip it into a container of calibration standard.
3. Switch unit on (ON / OFF key). Push MODE key to select TDS or °C. Wait several minutes for display to stabilize.
4. Press the INC or DEC keys to adjust reading to match the calibration standard value.
5. After 3 seconds without a key press, the display flashes 3 times, then shows "ENT". The tester accepts calibration value; returns to measurement mode.
6. Replace battery cap.

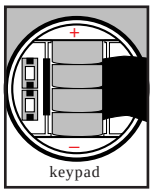
Setting TDS Factor

You can select a TDS factor of 0.4 to 1.0.

1. Open battery compartment. With meter on, press the HOLD key, then press the INC key (INC key is inside battery compartment; see diagram below left).
2. Press the INC or DEC keys to adjust the TDS factor.
3. After 3 seconds without a key press, the display flashes 3 times, then shows "ENT". Tester accepts TDS factor and returns to measurement mode.
4. Replace battery cap.

Changing Batteries

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



Tester Maintenance

- To improve performance, clean the electrodes by rinsing them in alcohol for 10-15 minutes. Remove white plastic cup insert to clean viscous solutions.
- Replace all batteries if low battery indicator appears, or if readings are faint or unstable.
- If you experience drift, periodically let electrode fully dry.

When you need a new electrode, see "**Electrode Replacement"** at right.

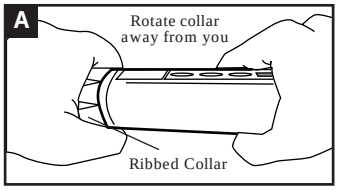
Specifications

TDSTestr +	Pure	Low	High
TDS Range	0 to 99.9 ppm	0 to 1999 ppm	0 to 10.00 ppt
TDS Resolution	0.1 ppm	1 ppm	0.01 ppt
TDS Accuracy	±1% full scale		
TDS Factor	0.4 to 1.0 selectable		
TDS Calibration Standard Range	10 to 99.9 ppm	200 to 1999 ppm	2 to 10.00 ppt
Temp Range	–5 to 55°C		
Temp Resolution	0.1°C		
Temp Accuracy	±0.5°C		
Calibration	1 point TDS and 1 point °C (calibration range is ±30% of factory default parameter)		
ATC	0 to 50°C (2% per °C)		
Operating Temp	0 to 50ºC		
Power	Four 1.5V alkaline batteries (Eveready A76BP; supplied) 150 hrs. continuous use Alternate replacement Model Eveready 303 silver oxide, 70 hrs. continuous use.		
Dimensions	6.5"L x 1.5" dia. (165 x 38mm)		
Weight	3.25 oz (90 gms)		

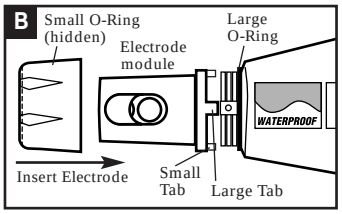
Electrode replacement:

You can replace the electrode module at the fraction of the cost of a new Testr. When the Testr fails to calibrate, gives fluctuating readings in buffers, shows error messages 'E2' or 'OR' in a buffer, and the procedures in the Maintenance section do not help, you need to change the electrode.

1. With dry hands, grip the ribbed Testr collar with electrode facing you. Twist the collar counter clockwise. *(see diagram A)*. Save the ribbed Testr collar and O-ring for later use.



2. Pull the old electrode module away from the Testr.
3. Align the four tabs on the new module so they match the four slots on the testr. *(see diagram B)*.



4. Gently push the module onto the slots to seat it in position. Push the smaller O-ring fully onto the new electrode module. Push the collar over the module and thread it into place by firmly twisting clockwise.

Warranty:

The TDSTestr+ meter body is warranted against defects in materials and workmanship for a period of 12 months from the date of purchase; the electrode module is warrantied 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 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.