Operating Instructions

Oakton® EcoTestr CTS Waterproof Pocket Tester

Measurement:

1. Remove cap and press ⏻ button to turn on the tester in Conductivity Mode (default).
2. Dip sensor in at least 30 mm of test solution.
3. Stir gently and wait for the ⏱ flashing to stop. Make sure sensor is at least 10 mm from bottom & side wall of container as it is level sensitive.
4. When the Conductivity reading stabilized, the ☑ will appear on display & user can take the measurement.
5. To select to TDS Mode, press menu button to enter the Setup Menu and 'PArA' will appear.
6. Press ↵ button and 'PArA Cond' will appear for selection.
7. Press menu button to toggle from 'PArA Cond' to 'PArA tdS' for selection.
8. Press ↵ button to accept 'PArA tdS' & showing 'donE' to confirm & then return to 'PArA'.
9. Press menu button to toggle from 'PArA' to 'tdS.F'.
10. Press ↵ button and 'tdS.F 0.71' will appear for setting (0.71 is default TDS factor).
11. Press menu button to decrease TDS factor to the set value e.g. 0.50 (can set between 0.40 to 1.00).
12. Press ↵ button to accept 'tdS.F 0.50' & showing 'donE' to confirm & then return to 'tdS.F'.
13. Press cal esc button to exit from 'tdS.F' to TDS Mode.
14. To take TDS measurement, rinse sensor before dipping to test solution & repeat steps 2-4.
15. To select to Salinity Mode now, press menu button to enter the Setup Menu and 'PArA' will appear.
16. Press ↵ button and 'PArA tdS' will appear for selection.
17. Press menu button to toggle from 'PArA tdS' to 'PArA SALt' for selection.
18. Press ↵ button to accept 'PArA SALt' & showing 'donE' to confirm & then return to 'PArA'.
19. Press cal esc button to exit from 'PArA' to Salinity Mode.
20. To take Salinity measurement, rinse sensor before dipping to test solution & repeat steps 2-4.
21. Press the ⏻ button again to switch off tester.

Note: Tester automatically shuts off after 8.5 minutes of nonuse to conserve batteries.

Calibration:

1. This tester allows only 1 Point Calibration.
2. For Conductivity Mode, 1 Point Auto or Manual calibration can be done while for TDS & Salinity Mode, only 1 Point Manual TDS & Salinity Calibration can be done.
3. Remove cap and press ⏻ button to turn on the tester in Conductivity Mode (default).
4. Dip sensor in at least 30 mm of Conductivity Standard (recommended 1410 µS/cm solution).
5. Stir gently and press cal esc button to start Conductivity calibration.
6. It will show 'CAL' follow by the default Cond. value & CAL will appear on display during calibration.
7. When the Conductivity reading stabilized, flashing ⏱ will stop.
8. After the ☑ will appear on display, wait for Auto scanning to lock.
9. When the reading is within the calibration window of Auto Conductivity Standards it will Auto lock to either 80 (84 µS/cm) or 1410 (1413 µS/cm) or 12.90 (12.88 mS/cm).
10. Press ↵ button to accept the Auto Conductivity Standard (80 or 1410 or 12.90) & showing 'donE' to confirm the Auto Calibration.
11. Upon exit to Conductivity Mode, it will show the Auto calibrated value (80 or 1410 or 12.90).
12. When the Conductivity reading is out of the calibration window of Auto Conductivity Standards, it will enter into Conductivity Manual Calibration Mode.
13. Press menu button to decrease value to the set Conductivity reading (±40% of default reading).
14. Press ↵ button to accept & showing 'donE' to confirm the manual calibration.
15. Upon exit to Conductivity Mode, it will show the Manual calibrated value.
16. To calibrate a new Conductivity Point, rinse sensor before dipping into test solution & then repeat steps 2-15.
17. To calibrate TDS Mode, first select to 'PArA tdS' & set 'tdS.F, correctly (refer to steps in Setup Menu).
18. To start TDS Manual Calibration, dipped sensor at least 30 mm into the TDS Calibration Standard & repeat steps 2-15.
19. To calibrate Salinity Mode, first select to 'PArA SALt' (refer to steps in Setup Menu).
20. To start Salinity Manual Calibration, dipped sensor at least 30 mm into the Salinity Calibration Standard & repeat steps 2-15.
21. To abort Conductivity/TDS/Salinity calibration, press cal esc button to escape.

Note: The Auto Conductivity Standards are 84 µS/cm, 1413 µS/cm & 12.88 mS/cm.

Setup Menu (To change setting):

1. Press menu button to enter the Setup Menu and 'PArA' will appear.
2. Press ↵ button and 'PArA Cond' will appear for selection.
3. Press menu button once to toggle from 'PArA Cond' to 'PArA tdS' for selection.
4. Press menu button again to toggle from 'PArA tdS' to 'PArA SALt' for selection.
5. Press ↵ button to accept & display showing 'donE' to confirm the new selection & return to 'PArA'.
6. Press menu button to toggle from 'PArA' to 'tdS.F'.
7. Press ↵ button and 'tdS.F 0.71' will appear for setting (0.71 is default TDS factor).
8. Press menu button to decrease TDS factor to the set value e.g. 0.50 (can set between 0.40 to 1.00).
9. Press ↵ button to accept 'tdS.F 0.50' & showing 'donE' to confirm & then return to 'tdS.F'.
10. Press menu button to toggle from 'tdS.F' to 'r.SEt'.
11. Press ↵ button and 'r.SEt nO' will appear for selection.
12. Press menu button to toggle between 'r.SEt nO' & 'r.SEt YES' for selection.
13. Press ↵ button to accept & display showing 'donE' to confirm the new selection & return to 'r.SEt'.
14. Press menu button to toggle from 'r.SEt' to 'dEg'.
15. Press ↵ button and 'dEg C' will appear for selection.
16. Press menu button to toggle between 'dEg C' & 'dEg F' for selection.
17. Press ↵ button to accept & display showing 'donE' to confirm the new selection & return to 'dEg'.
18. Press menu button to toggle from 'dEg' to 't.CAL'.
19. Press ↵ button and e.g. '25.0' (default ATC) will appear on 1st Line & flashing '25.0°C' (Cal. ATC) will appear on 2nd Line.
20. Press menu button to decrease value to the set ATC reading (±5.0°C/9.0°F of default ATC).
21. Press ↵ button to accept & display showing 'donE' to confirm the new calibrated ATC reading & return to 't.CAL'.
22. Press menu button to toggle from 't.CAL ' back to 'PArA' again. The Setup Menu cycle will repeat.
23. To exit from Setup Menu back to Measurement Mode, press cal esc button to escape.

Error Messages:

1. '🪫' – Weak batteries & need replacement soon.
2. 'bAt Lo' (Low Battery supply) – Tester automatically shut offs without going to Measurement Mode & batteries need immediate replacement.
3. 'StBL Err' (Stabilizing Error) – Manual Decrease/Confirm of calibration when reading still stabilizing.
4. 'Or' (Over Range) – The Conductivity, TDS, Salinity & ATC Temperature reading is above the measuring range of tester.
5. 'Ur' (Under Range) – The ATC Temperature reading is below the measuring range of tester.