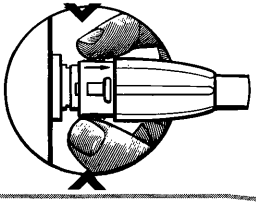
TDS-4 4-RANGE CONDUCTIVITY

1. Conductivity Cell

Quick connect cell
(Squeeze to disconnect)



2. Do not immerse below cell cap

3. Cell pivot hinge

4. LCD display and annunciators
   - X10
   - Lo Batt
   - uS

5. On/Off switch

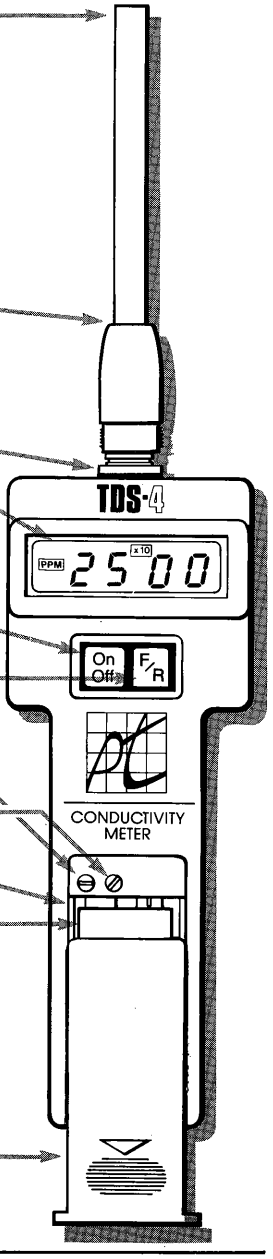
6. Range selector switch

7. Conductivity adjustment potentiometers: Zero
   Span

8. Battery compartment

9. 9V transistor battery

10. Battery compartment door



OPERATING INSTRUCTIONS

1. Deploy conductivity cell in either the 90 or 180 degree measurement position.
2. Energize by depressing the On/Off switch once.
3. Immerse cell into the solution approximately 1/2 its length.
4. When energized, the LCD will indicate the conductivity range being measured
5. The TDS-4 measures 4 ranges of conductivity in the following sequence; 0 to 200K, 0 to 20K, 0 to 2K & 0 to 200 umhos. For each range change desired, depress the F/R switch once.
6. Agitate electrode briefly and record the reading.
7. A 1 will appear in the indicator if the solution exceeds the measurement range.
8. Rinse electrode thoroughly after each use.

CALIBRATION INSTRUCTIONS

Your instrument has been pre-calibrated prior to shipment. Calibrations should be performed periodically with known conductivity solutions.

1. Rinse the cell thoroughly by agitating in distilled water prior to calibration.
2. Wipe off conductivity probe and allow to dry.
3. Once dry, conductivity should read 0 in air.
4. Adjust the Zero pot if the reading is incorrect.
5. Immerse the cell in a known conductivity solution.
6. Adjust the Span pot to the corresponding conductivity value.
7. Only a single point calibration in the 2K range is required to standardize. However, if the unit is to be used primarily in a higher or lower range, it is recommended that the single point calibration be performed near point of use and in the correct range for best accuracy and resolution.
8. Rinse cell thoroughly.

HELPFUL HINTS

1. Electrodes should be rinsed thoroughly after each test.
2. When possible, test samples of a lower conductivity value first.
3. If conductivity cell does not Zero in the air, it may indicate dried solids on the sensing portion of the cell (gold bands). Clean with a mild detergent solution remembering not to use abrasive materials that might scratch the sensors surface.
4. When possible choose a conductivity calibration solution with values that are near the samples normally being measured.
5. If the instrument will be stored for long periods of time, remove the battery.