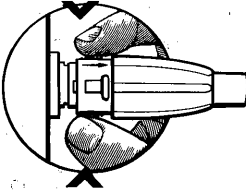


TDS-R

3-RANGE RESISTIVITY

1. Resistivity 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

5. On/Off switch

6. Range selector switch

7. Resistivity adjustment
potentiometers: Zero
Span

8. Battery compartment

9. 9V transistor battery

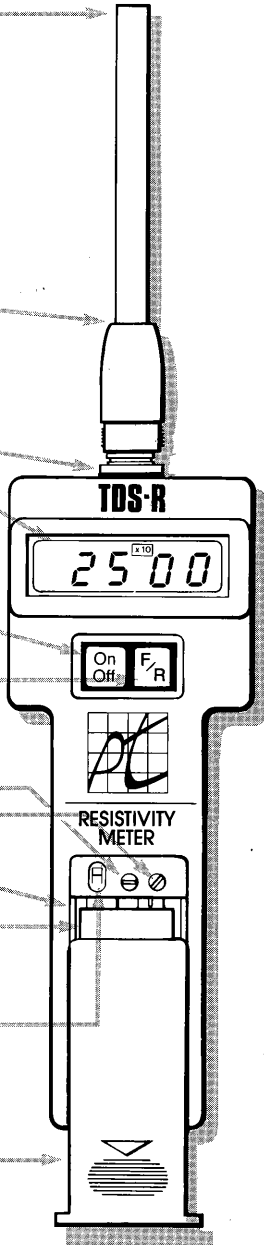
10. Temperature switch



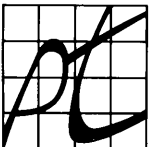
ATC

Fix 25°C

11. Battery compartment door



PRESTO-TEK



CORPORATION

INSTRUMENT DIVISION

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In California call: (213) 221-1178

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OPERATING INSTRUCTIONS

1. Deploy resistivity cell in either the 90° or 180° measurement position.
- 1a. Slide the battery compartment door open to reveal the temperature switch.
- 1b. Push the switch to the ATC (forward) position.
- 1c. If non-temperature compensated readings are desired, put the temperature switch in the FIXED 25°C 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 resistivity range being measured.
5. The TDS-R measures 3 ranges of resistivity in the following sequence; 0 to 200K, 0 to 20K, 0 to 2K & ohms/in.³. 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 in distilled water after each use.

CALIBRATION INSTRUCTIONS

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

1. Rinse the cell thoroughly by agitating in distilled water prior to calibration.
2. Wipe off resistivity probe and allow to dry.
3. Once dry, resistivity should read "0" when 2 pins in cell are shorted.
4. Adjust the Zero pot if the reading is incorrect.
5. Immerse the cell in a known resistivity solution.
6. Adjust the Span pot to the corresponding resistivity value.
7. Only a single point calibration in the 200K 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 in distilled water.

HELPFUL HINTS

1. Electrodes should be rinsed thoroughly after each test.
2. When possible, test samples of a higher resistivity value first.
3. If resistivity cell does not go to "1---" in the air, it may indicate dried solids on the sensing portion of the cell. Clean with a mild detergent solution remembering not to use abrasive materials that might scratch the sensors surface.
4. When possible choose a resistivity 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.