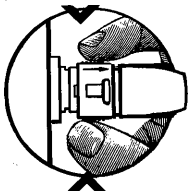


SM-8 SALT ANALYZER

1. Conductivity (% NaCl) cell

Quick connect cell
(Squeeze to disconnect)



2. Do not immerse below
cell cap

3. Cell pivot hinge

4. LCD display and annunciators
% Salt
Lo Batt

5. On/Off switch

6. Range switch
2% or 20%

7. A - indicates adjustable mode

8. NaCl adjustment
potentiometers: Zero
Span

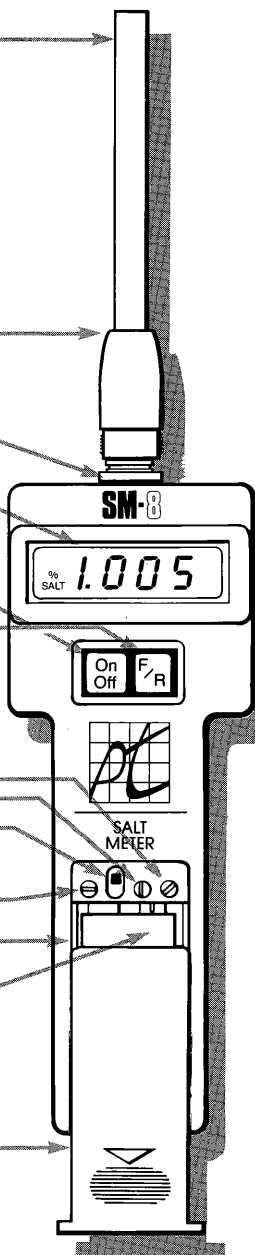
9. Factory calibrated/adjustable
mode selector switch

10. Adjustment mode potentiometer

11. Battery compartment

12. 9V transistor battery

13. Battery compartment door



OPERATING INSTRUCTIONS

1. Deploy salt cell in either the 90 or 180 degree measurement position.
2. Energize by depressing the On/Off switch once.
3. Slide open the battery compartment door and select either the calibrated or adjustable mode by sliding the mode switch to the "C" or "A" position.
NOTE: For operation in the "A" position please refer to the specific calibration instructions below.
4. Immerse cell into the solution approximately 1/2 its length.
5. The SM-8 measures in 2 ranges ; 0 to 1.999 % NaCl and 0 to 19.99 % NaCl. 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. After use, clean and rinse the salt cell with the maintenance kit provided.

CALIBRATION INSTRUCTIONS

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

CALIBRATION MODE: switch to position " C "

1. Clean the salt cell thoroughly with the maintenance kit provided, then rinse by agitating in distilled water prior to calibration.
2. Wipe off and allow the cell to dry.
3. Once dry, % salt should read 0 in air.
4. Adjust the " Zero " pot to zero if the reading is incorrect.
5. Immerse the cell in a known salt solution, adjust the span pot to corresponding salt value.
6. Rinse the cell in distilled water and repeat calibration steps 2,3,4 & 5 for the next range.

ADJUSTABLE MODE: switch to position " A "

1. Always start with an instrument that has been correctly calibrated in the " C " mode for both ranges.
2. Dry cell should read 0 in air.
3. Immerse the salt cell in a known NaCl solution obtained through titration or other in-house methods.
4. Adjust the " Adj. " pot to correspond with the known value.
5. Rinse cell thoroughly in distilled water.

HELPFUL HINTS

1. The salt cell should be rinsed thoroughly after each test.
2. When possible, test samples of a lower salt value first.
3. If salt cell does not zero in air, it may indicate dried solids on the sensing portion of cell (gold bands). Clean with the maintenance kit and solutions provided, remembering not to use abrasive materials that might scratch the sensing portion of the salt cell.
4. When possible, choose calibration solutions 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.