



TDS Meter Calibration

Standard Operating Procedure



WASTE
REDUCTION
& DISPOSAL
DIVISION

Groundwater Monitoring



GeoTech & Orion Models 130 & 135

The following procedures are to be completed prior to event per manufacturer.

Setting the Cell Constant 'C':

1. Immerse the cell into the appropriate standard solution.
2. Press the 'C' key to select the free adjustable cell constant.
*Note – Default constant is set at 0.475 cm^{-1} .
3. Press the 'C' key again to select the fixed cell constant at 0.100 cm^{-1} .
4. Press the 'C' key a third time to switch back to free adjustable cell constant.
5. Use the   keys to adjust the cell constant.
6. Press the X key to return to measurement mode.
7. Verify adjustment in the standard solution.
8. Repeat steps 2 through 6 if further adjustment is necessary.

Setting the Temperature Function 'TC':

1. Immerse electrode into the sample solution.
2. Press the 'TC' key - 'nLF' will be displayed for natural water.
3. Press 'TC' key again for no temperature compensation – 0.00 will be displayed.
4. Press 'TC' key a third time for adjustable temperature compensation mode – 2.00 will be displayed.
5. Use   keys to adjust temperature compensation value to desired value.
6. Press the X key to return to measurement mode.

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Benefit of Compliance to Instruction:

- Assures accurate and reliable field data
- Conforms to Regulatory sampling protocol

Consequence of Non-Compliance to Instruction:

- Improper calibration leads to invalid data, violating sampling protocol
 - Inaccurate field measurements can mask significant water quality change
 - Fines from Regulatory Agency
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Environmental Management System (EMS) –ISO 14001

PROCESS MAP #:

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