

*sension*TM5 Conductivity Meter Quick Reference Card

Changing Meter Setup Options

Setup options 1–6 have default settings (underlined in the table). To change the default setting, use the table below. Setup options 7–9 must have values entered into them.

Setup	How To Get There	Description of Option
1	Turn the meter on and press SETUP . Press ENTER .	Turn display lock On or <u>Off</u> . ENTER toggles between the options. Press EXIT when selection is complete.
2	Turn the meter on and press SETUP . Press the up arrow once. Press ENTER .	Choose between <u>°C</u> or °F for displayed temperatures. ENTER toggles between the options. Press EXIT when selection is complete.
3	Turn the meter on and press SETUP . Press the up arrow until the setup number is <u>3</u> . Press ENTER .	Temperature Correction is for use with conductivity measurements. Choose between On and <u>Off</u> . ENTER toggles between the options. Press EXIT when selection is complete.
4	Turn the meter on and press SETUP . Press the up arrow until the setup number is <u>4</u> . Press ENTER .	Ensure the Temperature Correction feature is On (see Setup 3). Use the arrow keys to toggle between the non-linear correction (NaCl is displayed) and linear correction (a value is displayed). Change the default correction factor (<u>2.000%</u> °C) using the number keys. Press ENTER to accept the value. Press EXIT when selection is complete.
5	Turn the meter on and press SETUP . Press the up arrow until the setup number is <u>5</u> . Press ENTER .	Select the <u>linear</u> or non-linear conversion of conductivity to TDS. Use the arrow keys to scroll between the non-linear conversion (NaCl is displayed) and linear conversion (a value is displayed). Change the linear conversion value using the number keys. Press ENTER to accept the value. Press EXIT when selection is complete.
6	Turn the meter on and press SETUP . Press the up arrow until the setup number is <u>6</u> . Press ENTER .	Choose between 20 or <u>25</u> °C for a reference temperature. ENTER toggles between the options. Press EXIT when selection is complete.
7	Turn the meter on and press SETUP . Press the up arrow until the setup number is <u>7</u> . Press ENTER .	Select the time of day by pressing the desired number key. The meter uses a 24-hour clock. All four places must have a value. Use a 0 if the left-most digit does not have a value (i.e., 03:08). Press ENTER to accept the value. Press EXIT when selection is complete.
8	Turn the meter on and press SETUP . Press the up arrow until the setup number is <u>8</u> . Press ENTER .	Set the month and day by pressing the desired number keys. The month uses the two places left of the slash; the day of the month occupies the two places right of the slash. Enter a 0 if the left-most digit does not have a value (i.e., 02/06). Press ENTER to accept the value. Press EXIT when selection is complete.
9	Turn the meter on and press SETUP . Press the up arrow until the setup number is <u>9</u> . Press ENTER .	Set the year by using the number keys. Every place must have a value. Press ENTER to accept the value. Press EXIT when selection is complete.

Calibrating With a Known Standard

1. Choose a standard which is in the expected range of the samples.
2. Turn the meter on. Place the probe in the standard. Agitate it to dislodge bubbles. Ensure probe is in the middle of the sample.
3. Press **CAL**.
4. Use the arrow keys to select the desired factory calibration option (1000 $\mu\text{S}/\text{cm}$ or 18 mS/cm). Press **ENTER**. If using another standard, select the factory calibration with the *correct units* ($\mu\text{S}/\text{cm}$ or mS/cm), then use the number keys to replace the factory calibration value with the value of the standard's conductivity at 25 °C. Press **ENTER**.
5. When the reading is stable, the calibration is automatically stored in the meter.

Calibration By Adjusting the Cell Constant

1. Perform the calibration procedure with a known standard. Be sure the meter is in conductivity mode.
2. Press **REVIEW**. The probe's cell constant will be displayed. Record the value that is displayed.
3. Press the up arrow. The meter will show the standard concentration value. Record the value that is displayed. Press **EXIT**.
4. Press **CAL**. The meter will display the last calibration value.
5. Press the down arrow until the current cell constant is displayed (in $1/\text{cm}$).
6. Use the number keys to enter the cell constant from the previous calibration. If the sample range has changed, use a cell constant from a previous calibration in that range.
7. Press **ENTER**.



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