

EC210E Conductivity Meter Operation Quick Guide

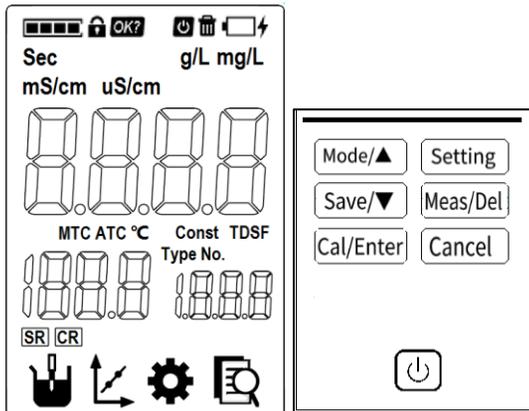
1. Specification

Parameters: Conductivity,
TDS, Temperature

Conductivity Range: 0.00 μ S/cm ~
200mS/cm

TDS Range: 0.00mg/L ~ 100g/L

2. Screen Icons



Symbol	Explanation	Symbol	Explanation
	Reading state	Sec	Time Unit
	Reading is locked	mg/L	TDS Unit
	Confirm the option	g/L	TDS Unit
	Automatic shutdown	μ S/cm	Conductivity Unit

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Symbol	Explanation	Symbol	Explanation
	Delete the result	mS/cm	Conductivity Unit
	Auto-read	MTC	Manual temperature compensation
	continuous-read	ATC	Auto Temperature compensation
	Measurement	$^{\circ}$ C	Temperature Unit
	Calibration	Const	Cell Constant
	Setting	TDSF	TDS Conversion Factor
	View	Type	Electrode Type
	Power low	No.	No.
	Charging		

3. Preparation

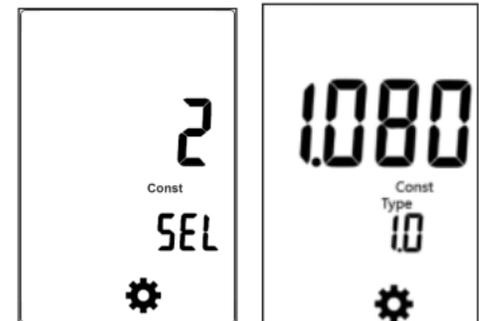
1. Connect the EC electrode (k=1, with ATC) to the meter.
2. Take off the electrode protection cap.
3. Rinse the conductivity electrode with DI water, dry out.
4. Switch on the meter.

Note: The exact constant is attached to the cable in a new EC electrode.

4. Calibration

4.1. Cell Constant Setting

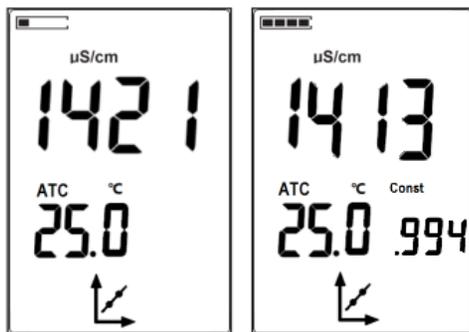
1. In the measurement status, press "Setting" to access the main setting menu.
2. Press the "Mode/ \blacktriangle " or "Save/ \blacktriangledown " to highlight "2 const" and press "Cal/Enter" key.
3. Press "Setting" to exchange 1.0, 10 or 0.1 to set the desired constant type (e.g. k=1).
4. Press the "Mode/ \blacktriangle " or "Save/ \blacktriangledown " to adjust the constant (e.g. 1.080) and press "Cal/Enter" key to save the setting and return to the measurement status.



4.2. Manual Calibration

1. Set the desired constant type as the 5.1 Cell Constant Setting.

- 2 . Prepare a standard conductivity solution(e.g. 1413 μ S/cm conductivity solution)
- 3 . Prepare a thermostatic bath, and set the temperature to (25.0 \pm 0.1) $^{\circ}$ C.
- 4 . Place a standard conductivity solution in a thermostatic bath.
- 5 . Place the conductivity electrode into a standard solution.
- 6 . When the temperature shows (25.0 \pm 0.1) $^{\circ}$ C in the meter, press the "Cal/Enter" and enter into the calibration status.
- 7 . When the conductivity and temperature reading (e.g.1421 μ S/cm, 25.0 $^{\circ}$ C) are stable, press "Cal/Enter" to end the calibration and return to the measurement status.
- 8 . The meter saves calibration data automatically and shows the new Cell Constant in the constant setting.



5. Measurement

1. Set the reading mode in the meter.
 - 1) In the measurement status,press "Setting" to access the main setting menu.
 - 2) Press the "Mode/ \blacktriangle " or "Save/ \blacktriangledown " to highlight"1 **SR** **CR**" and press "Cal/Enter" key.
 - 3) Press the "Mode/ \blacktriangle " or "Save/ \blacktriangledown " to highlight **SR** or **CR** to set the desired the reading mode.
 - 4) Press "Cal/Enter" key to save the setting and return to the measurement status.
2. Set the parameter TDS in the meter.
 - 1) Press the "Mode/ \blacktriangle " or "Save/ \blacktriangledown " to highlight "3 TDSF" and press "Cal/Enter" key.
 - 2) Press the "Mode/ \blacktriangle " or "Save/ \blacktriangledown " to adjust TDS factor to set the desired TDS factor.
 - 3) Press "Cal/Enter" key to save the setting and return to the measurement status.
3. Rinse the conductivity electrode with DI water, dry out.
4. Put the measurement end of the electrode into the sample solution.
5. When the reading is stable, read the results.

6. Press the "Save/ \blacktriangledown " to save the measurement results.
7. In the measurement status,press the "Mode/ \blacktriangle " to exchange the conductivity and TDS result.
8. In the measurement status, press the "Save/ \blacktriangledown " more than 3 second to access the data management.
9. During measurement, stored EC electrode in distilled or deionized water.
10. After measurement, rinse the EC electrode with deionized water thoroughly and put on the electrode protection cap.

Note: For accurate measurement, please calibrate and measure at the same temperature.

