



The meter will automatically convert conductivity values to salinity, total dissolved solids (TDS), or resistivity.

### Measure - Conductivity

uS/cm      channel 1

# 0.010

STANDARD | Last std: Sep 17 @ 10:17 am

std

meas

setup

print

mode

help

- Touch meas to measure sample
- or
- Touch std to access standardize mode

September 17, 1997		11:11 am	
ID#	00000	ATC	25.0 °C
		Ref	25 °C
Cell K	1.00/cm	Co	5.00 %/°C

This mode allows you to measure the conductivity of solutions. Conductance is a value associated with the ability of primarily aqueous solutions to carry an electrical current. The presence of ions in an aqueous solution increases the solution's ability to carry an electrical current. Impurities in the solution, such as metals, dissolved soil, etc. increases the ion content of the solution. For this reason, conductivity is considered to be an indication of how clean the solution is. The meter will automatically convert conductivity measurements to salinity, Total Dissolved Solids, or resistivity measurements. The meter will continually monitor the conductivity reading in this mode and will not lock onto a single reading. However, once the reading has become stable, STABLE will be displayed. Remember to setup your conductivity measuring mode parameters. Refer to pages 104-121 for conductivity setup instructions.



Remember, HELP is always just a touch of the button away.

### Standardize - Conductivity

uS/cm channel 1

**0.010**

10.0

STND	Last std: Sep 17 @ 10:17 am
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- Touch clear to delete previous standards

Insert electrode into standard and stir

- Touch std to standardize new standard

September 17, 1997	11:11 am
ID# 00000	ATC 25.0 °C
	Ref 25 °C
Cell K 1.00/cm	Co 0.00 %/°C

std  
meas  
setup  
clear  
mode  
help

### Standardize - Conductivity

uS/cm channel 1

**0.010**

STND Not Standardized

Insert electrode into standard and stir

- Touch std to standardize new standard

September 17, 1997	11:11 am
ID# 00000	ATC 25.0 °C
	Ref 25 °C
Cell K 1.00/cm	Co 0.00 %/°C

std  
meas  
setup  
clear  
mode  
help

### Standardize - Conductivity

uS/cm channel 1

Enter uS/cm

1	2	3
4	5	6
7	8	9
.	0	enter

10.0

STND	Last std: Sep 17 @ 10:17 am
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- Touch

Insert

- Touch

Sept	
ID# 00000	ATC 25.0 °C
	Ref 25 °C
Cell K 1.00/cm	Co 0.00 %/°C

std  
meas  
setup  
clear  
mode  
help

### Measure - Conductivity

uS/cm channel 1

**0.010**

10.0

STND	Last std: Sep 17 @ 10:17 am
------	-----------------------------

- Touch meas to measure sample

or

- Touch std to access standardize mode

September 17, 1997	11:11 am
ID# 00000	ATC 25.0 °C
	Ref 25 °C
Cell K 1.00/cm	Co 0.00 %/°C

std  
meas  
setup  
print  
mode  
help

To “standardize” your conductivity probe in the  
Advanced Level of Operation

- 1** Access the Conductivity Setup screen and verify the values for the nominal cell constant of the probe, the reference temperature and the temperature coefficient. Also, verify that the meter is set for the  $\mu\text{S}/\text{cm}$  units.
- 2** Touch std on the Conductivity Measure screen to access the Conductivity Standardization screen.
- 3** Immerse the conductivity and ATC probes in the standard with a known conductivity value and stir.
- 4** Touch clear to delete previous standardization values.
- 5** Touch std to access the standardization mode again.
- 6** Use the keypad on the display screen to enter the value of the known conductivity standard.
- 7** Touch enter on the keypad to accept this conductivity standard and return to the Conductivity Measure screen.

The actual cell constant will be displayed in the data box at the bottom of the Conductivity Measure screen.



It is important to condition your conductivity probe according to the manufacturer's instructions prior to use.

You will only need one conductivity standard to standardize the meter.

Standardize - Conductivity

uS/cm channel 1

**0.010**

10.0

STND	Last std: Sep 17 @ 10:17 am
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- Touch clear to delete previous standards

Insert electrode into standard and stir

- Touch std to standardize new standard

September 17, 1997	11:11 am
ID# 00000	ATC 25.0 °C
	Ref 25 °C
Cell K 1.00/cm	Co 0.00 %/°C

std  
meas  
setup  
clear  
mode  
help

Standardize - Conductivity

uS/cm channel 1

**0.010**

STND Not Standardized

Insert electrode into standard and stir

- Touch std to standardize new standard

September 17, 1997	11:11 am
ID# 00000	ATC 25.0 °C
	Ref 25 °C
Cell K 1.00/cm	Co 0.00 %/°C

std  
meas  
setup  
clear  
mode  
help

Standardize - Conductivity

uS/cm channel 1

Enter uS/cm

1 2 3

4 5 6

7 8 9

0 enter

10.0

STND	Last std: Sep 17 @ 10:17 am
------	-----------------------------

- Touch

Insert

- Touch

Sept	
ID# 00000	ATC 25.0 °C
	Ref 25 °C
Cell K 1.00/cm	Co 0.00 %/°C

std  
meas  
setup  
clear  
mode  
help

Measure - Conductivity

uS/cm channel 1

**0.010**

10.0

STND	Last std: Sep 17 @ 10:17 am
------	-----------------------------

- Touch meas to measure sample

or

- Touch std to access standardize mode

September 17, 1997	11:11 am
ID# 00000	ATC 25.0 °C
	Ref 25 °C
Cell K 1.00/cm	Co 0.00 %/°C

std  
meas  
setup  
print  
mode  
help

To “standardize” your conductivity probe in the Basic Level of Operation

At the Basic Procedural level the only setup options that you can access are the Cell Constant, the Print Interval and the number of Significant Digits. If you need to change any other parameter such as reference temperature or temperature coefficient you will need to set the Procedural Level to Advanced in the System Setup screen. Any values previously saved in the Conductivity Setup screen at the Advanced Procedural Level will become the default values for the Basic Procedural Level.

- 1** Access the Conductivity Setup screen and verify the value for the nominal cell constant of the probe.
- 2** Touch std on the Conductivity Measure screen to access the Conductivity Standardization screen.
- 3** Immerse the conductivity and ATC probes in the standard with a known conductivity value and stir.
- 4** Touch clear to delete previous standardization values.
- 5** Touch std to access the standardization mode again.
- 6** Use the keypad on the display screen to enter the value of the known conductivity standard.
- 7** Touch enter on the keypad to accept this conductivity standard and return to the Conductivity Measure screen.

Measure - Conductivity

uS/cm channel 1

**0.010**

STANDARD | Last std: Sep 17 @ 10:17 am

- Touch meas to measure sample

or

- Touch std to access standardize mode

September 17, 1997		11:11 am	
ID#	00000	ATC	25.0 °C
		Ref	25 °C
Cell K	1.00/cm	Co	5.00 %/°C

std

meas

setup

print

mode

help

Once an exact cell constant has been established, the meter is ready for sample measurements.

- 1** Immerse the conductivity cell and ATC probe into the sample solution. The immersion depth should be enough to cover the vent holes on the electrode.
- 2** Stir the solution with the electrode briefly and then let the electrode sit still in the solution.
- 3** Observe and record the measurement value when it appears to be stable (STABLE will appear). The meter will automatically change ranges from  $\mu\text{S}/\text{cm}$  to  $\text{mS}/\text{cm}$  as required.
- 4** Touch print to send the data to a printer or computer. If you have assigned a sample ID# to this sample, the data will be saved in the meter's data storage center when you touch print.
- 5** Repeat steps 1 through 4 for additional samples.