




Measure

pH channel 1

7.00

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

- Touch meas to measure sample

or

- Touch std to standardize

September 17, 1997		11:11 am	
ID#	00000	ATC	25.0 °C
auto buffer	ON	slope	100%
auto read	ON	mV	0000.0

std

meas

setup

print

mode

help

In this mode, you will be able to measure the pH of a wide variety of samples. Before measuring pH, you will need to standardize the meter using buffers with known pH values. It is good practice to standardize the meter frequently using a minimum of two buffers. Using two buffers allows the meter to calculate and display an actual slope for the electrode, and therefore produce more accurate measurements. If there is no standardization in the memory of the meter or if only one buffer has been used to standardize the meter, the slope value will appear as "NA".

You can standardize your meter using automatic or manual buffer recognition. With the Automatic buffer recognition activated, the meter will automatically recognize the buffers from the chosen buffer group and accept them when the meter recognizes the reading as stable. When in the Manual buffer recognition mode, you must enter the buffer value during the standardization procedure. The meter will accept the manually entered buffer when it recognizes that the measurement is stable. During the standardization procedure, you may accept the buffer value before the meter recognizes it as stable by touching std. See page 58 to select desired buffer recognition.

At the Basic Procedural level the only setup options that you can access are the Buffer Groups, the Print Interval and the Display Resolution. If you need to change any other parameter such as Buffer Recognition or Auto Read mode you will need to set the Procedural Level to Advanced in the System Setup screen. Any values previously saved in the pH Setup screen at the Advanced Procedural Level will become the default values for the Basic Procedural Level.

Remember to setup your pH measuring mode parameters. Refer to pages 46-81 for pH setup instructions.

Connect the electrodes you will be using to the meter. See page 10 for details.



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

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7.00

STABLE

4 7

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- Touch meas to measure sample

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Standardize

pH channel 1

7.00

4 7 10

BUFFERS Last std: Sep 17 @ 10:17 am

Current BUFFER GROUP USA

- Touch clear to delete previous buffers

Insert electrode into buffer and stir

- Touch std to standardize new buffer

September 17, 1997		11:11 am	
ID#	00000	ATC	25.0 °C
auto buffer	ON	slope	100%
auto read	ON	mV	0000.0

std

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To Standardize the meter with Auto Buffer Recognition

- 1** Touch STD on the pH measure screen to access the standardize screen.
- 2** Touch clear to delete a previous standardization. All pH standardization values will be cleared. The meter will remain on the Standardization screen at this point.

OR
If the screen says "Not Standardized" proceed to step 3.
- 3** Immerse your rinsed electrode(s) in a buffer solution from the selected buffer group that you chose during the setup process (see pages 54) and stir gently.
- 4** Touch std again to standardize the meter using this buffer. The word MEASURING will flash until the signal is stable. The meter will accept the value once it recognizes that the reading is stable. At that time, STABLE will appear on the screen. A beaker icon and the entered pH value will also appear on the screen at this time. The meter will then return to the measure screen.
- 5** Touch std on the pH measure screen to access the standardization screen and repeat steps 3 through 5 to standardize with up to 5 buffers.



For optimal results, the meter should be standardized at a minimum of every 8 hours. For more accurate measurements, the meter should be standardized more frequently.

Updating a standardization with Auto Buffer Recognition:

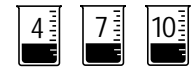
You can update a standardization at anytime. To update a standardization, place your electrode in any of the buffers originally used to standardize the meter and touch std on the touch screen twice. The value for that buffer will be updated and stored in the meter's memory. The time of standardization will also be updated on the pH measurement screen.

The efficiency of the electrode is reported as the slope. When doing a multi-point standardization, the slopes of the individual segments are calculated by the meter. The slope that appears on the screen is the slope that is the least perfect, or the farthest from 100%.

Standardize

pH channel 1

7.00



BUFFERS	Last std: Sep 17 @ 10:17 am		
Current BUFFER GROUP	USA		

- Touch clear to delete previous buffers
- Insert electrode into buffer and stir
- Touch std to standardize new buffer

September 17, 1997		11:11 am	
ID#	00000	ATC	25.0 °C
auto buffer	ON	slope	100%
auto read	ON	mV	0000.0

std

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Standardize

pH channel 1

Enter pH

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

ID#	00000	ATC	25.0 °C
auto buffer	ON	slope	NA
auto read	ON	mV	0000.0

std

meas

setup

clear

mode

help

To standardize the meter with manual buffer recognition

- 1** Touch std on the pH measure screen to access the standardize screen.
- 2** Touch clear to delete a previous standardization. All pH standardization values will be cleared. The meter will remain on the Standardization screen at this point.

OR
If the screen says "Not Standardized" proceed to step 3.
- 3** Immerse your rinsed electrode(s) in a buffer solution and stir gently.
- 4** Touch std again to standardize the meter using this buffer.
- 5** Using the displayed keypad, input the value of the buffer that you are using to standardize the meter and then touch enter. The meter will accept the value once it recognizes that the reading is stable. At that time, STABLE will appear on the screen. A beaker icon and the entered pH value will also appear on the screen at this time. The meter will return to the pH measure screen.
- 6** Touch std on the pH measure screen to access the standardization screen and repeat steps 3 through 5 to standardize with up to 5 buffers.

Updating a standardization with Manual Buffer Recognition:

You can update a standardization at any time. To update a standardization with manual buffer recognition, place your electrode in any of the buffers originally used to standardize the meter and touch the std key on the touch screen twice. Then using the keypad displayed on the screen enter the value of the buffer and touch enter. The value for that buffer will be updated and stored in the meter's memory. The time of standardization will also be updated on the pH measure screen.



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Measure

pH channel 1

7.00

std

meas

setup

print

mode

help

4

7

10

BUFFERS Last std: Sep 17 @ 10:17 am

- Touch meas to measure sample

or

- Touch std to standardize

September 17, 1997		11:11 am	
ID#	00000	ATC	25.0 °C
auto buffer	ON	slope	100%
auto read	ON	mV	0000.0

The measure screen provides a readout of the current sample measurement. You can use this meter when the Auto Read function is active or when it is inactive. When the Auto Read function is active, the meter will lock onto a reading when the meter recognizes it as stable. The meter will not deviate from this reading until meas is touched. If the Auto Read mode is inactive, then the meter will continuously monitor the pH of the sample and the measure display screen will indicate any fluctuation in the sample pH. Regardless of the status of the Auto Read mode, STABLE will flash as the meter recognizes the measurement as stable.

Once the meter is standardized, you are ready to take pH measurements of your sample.

To measure pH of a sample with Auto Read ON

- 1** Immerse the rinsed electrode(s) in the stirring sample.
- 2** Touch meas to begin measuring your sample. The meter will accept the reading and display STABLE when the measurement meets the selected stability criteria.

OR

To measure pH of a sample with Auto Read OFF

- 1** Immerse the rinsed electrode(s) in the stirring sample.
- 2** Record the reading once the measurement has become stable. STABLE will appear once the meter recognizes that the measurement is stable.

NOTES: You can access other functions of the meter with the remaining buttons on the measure screen.

- Touching print will send the data to the meter's memory if the sample ID# is activated and to a printer or computer if it is attached to the meter. The saved data can be accessed through the View Stored Data screen in the pH Setup mode.
- Touching setup will access the pH Setup screen. For detailed information regarding pH Setup see pages 46-81.
- Touching meas will initiate a new measurement of a sample.
- At anytime, you can touch mode to access another mode of operation including: mV, rel mV, Ion, Cond or the setup mode or place the meter in the standby mode.