

Key Functions

Cursor positions or numeric adjustments are performed by pressing the appropriate keypad. The T23 uses an "underline" cursor in each of the menus. Holding down the keypad will automatically scroll the cursor or numeric values. Please note that simultaneous pressure on both vertical keys or any combination of keys other than the two horizontal CALIBRATE keys is **not** recommended.

pH	7.00
<u>_</u> 50.0%	25.0°C

Place the transmitter into the manual mode prior to calibration to lock the current output.

Simultaneously Press the Horizontal Calibrate keys

pH	7.00
<u>M</u> 50.0%	25.0°C

Observe the "M" appear signifying that the transmitter is in the manual mode.

Press the down menu selection key

Input	.0 mVa
<u>0</u> mVa	7.00

Electrode diagnostic no calibration or action from this screen.

Press the down menu selection key

<u>1</u> pH	7.00
Cal	.0 mV@25

Rinse the sensor in DI water and dry. Place the sensor into a 7pH buffer. Enter the calibrate mode

Simultaneously Press the Horizontal Calibrate keys

<u>1</u> pH	7.00
	7.3 mV@25

Wait for the mV value to stabilize. Exit and save the calibration.

Press the down menu selection key

<u>1</u> pH	7.00
Cal	7.3 mV@25

Record the mV value for future reference

Press the down menu selection key twice

<u>2</u> pH	.00
Cal	-59.1 mV/pH

Rinse the sensor in DI water and dry. Place the sensor into a second pH buffer (ECD recommends 4). Enter the calibrate mode

Simultaneously Press the Horizontal Calibrate keys

<u>2</u> pH	.00
	-27.3 mV/pH

Input the buffer value being used.

Press the appropriate Calibrate key. Left and right move the cursor accordingly. Up and down keys add or subtract values.

<u>2</u> pH	4.00
	-57.3 mV/pH

Wait for the mV value to stabilize. Exit and save the calibration.

Press the down menu selection key

<u>2</u> pH	4.00
Cal	-57.3 mV/pH

Record the mV value for future reference.

Press the up menu selection key four times

pH	6.30
<u>M</u> 50.0%	25.0°C

Install the sensor back into the process and scroll the transmitter back to the main process menu.

pH	6.30
<u>_</u> 45.0%	25.0°C

Remove the transmitter from the manual mode.

Press the left Horizontal Calibrate key

Setting the calibration back to original factory Default settings.

2 pH	4.00
<u>C</u> al	-5.1 mV/pH

Incorrect values stored in the span calibration menu

Place the cursor under the "C" in Cal and Simultaneously Press the Horizontal Calibrate keys

2 pH	.00
<u>C</u> al	-59.1 mV/pH

The span menu is set to factory default values.

1 pH	7.00
<u>C</u> al	250.1mV@25

Incorrect values stored in the standardization calibration menu

Place the cursor under the "C" in Cal and Simultaneously Press the Horizontal Calibrate keys

1 pH	7.00
<u>C</u> al	.0 mV@25

The standardize menu is set to factory default values.

Output Calibration Menu

Current output ranges are adjusted in this menu. The top line defines the 4 mA point, while the bottom line defines the 20 mA point. Between these points, the output current is linear with respect to the sensor input.

By reversing the signs, the European convention or the Thermodynamic (American) convention can be defined.

Temperature Calibration Menu

This Menu has two calibrate functions. It is used to adjust or trim the temperature compensation for variations in the sensing element. This menu can also provide a manual temperature input for the process. The top line displays the temperature offset value. The bottom line displays the adjusted temperature value.

Second, the menu is used to change the units of display to either Celsius or Fahrenheit. The change is performed as a toggle function and changes the displayed units on all screens or menus where temperature is displayed to the desired unit of measurement.

4 mA	.00
20 mA	14.00

Output Calibration Menu, pH

Trim °C	.0
<u>U</u> nit	24.3°C

Temperature Calibration Menu

Trim °C	.0
<u>U</u> nit	24.3°C

Temperature Calibration Menu

Trim °F	.0
<u>U</u> nit	75.7°F

Temperature Calibration Menu