

Eutech PH 700

Equipment Components:

- PH meter
- PH electrode
- ATC probe
- Electrode holder
- Power Adapter

General Information:

The equipment has six buttons and a built-in reference guide at the bottom. When the meter is switched on, it will display the model name, type of buffer used, and number of calibration points.

Button Functions:

- MODE: Changes the measurement mode to either pH or mV.
- HOLD: Locks the readings. To release the readings, press HOLD again.
- CAL/MEAS: Enters calibration mode or returns to measurement mode.
- MI (Memory Input): Saves the readings into the meter (can save up to 100 data sets).
- MR (Memory Recall): Recalls saved data. Press MR followed by the UP/DOWN button to select the memory you wish to recall, then press ENTER.

Hidden Function of MODE:

Press MODE for more than five seconds to enter SETUP mode:

1. CAL: View calibration data.
2. ELE: View electrode data.
3. ConF: Configure the meter.
4. rSt: Reset the meter.
5. CLr: Clear saved data in the meter.

Once settings are done, press CAL/MEAS to return to measurement mode.

How to Do Calibration: always start with pH 7.

1. Remove the storage container from the pH electrode (unscrew the container cap first).
2. Rinse the pH electrode with distilled water.
3. Blot the pH electrode with soft tissue to remove excess water. Be gentle and do not rotate the tissue; just hold the electrode on the tissue paper so it can absorb the water.
4. Dip the pH electrode into buffer pH 7 to start the calibration (always start with pH 7).
5. Press CAL/MEAS to enter calibration mode.
6. The first row on the screen shows the original readings, and the second row shows the calibration point detected.
7. When the READY indicator appears, it shows that the reading has stabilized. Press ENTER to accept the calibration.
8. Once pH 7 calibration is done, you can calibrate with either above or below pH standards.

Calibration Using pH 4:

1. Remove the pH electrode from buffer pH 7 and rinse it with distilled water.
2. Dip the pH electrode into buffer pH 4.
3. The meter will remain in calibration mode until the user has performed 3 calibration points.
4. SLP (slope) will appear after 2 points of calibration. This shows the pH electrode has 98.6% efficiency, where a good slope range is 92-102%.

Calibration Using pH 10:

1. Rinse the pH electrode with distilled water, blot it, and dip it into buffer pH 10.
2. Press ENTER when the reading has stabilized.
3. After 3 points of calibration, the meter will automatically return to measurement mode.

The electrode slope efficiency data can be reviewed in setup mode after calibration is completed:

1. Press MODE for 5 seconds to enter setup mode.

2. Select page 2 (ELE) to view electrode data. Press ENTER, and the meter will show the offset of the electrode.

3. Press ENTER again, and the slope efficiency will appear.

The meter is defaultly set to recognize the USA buffer set (pH 4, 7, 10) and must be calibrated at 3 points.

For further assistance, refer to the <https://www.youtube.com/watch?v=kRtwKKoS8J0>.