

PH400F pH Meter Operation Quick Guide

1. Specification

Parameters: pH, mV, Temperature

pH level: 0.001pH

pH range: (-2.00 ~ 20.00)pH

mV range: (-2000.0 ~ 2000.0)mV

Temperature range: (-10.0 ~ 135.0)°C

2. Screen Icons



2.1. Annotation

No.	Explanation
1	Title
2	System time
3	Measurement parameters and reading states
4	Main measurement box

PH400F pH Meter Operation Quick Guide

No.	Explanation
5	Calibration information
6	User ID
7	Sample ID
8	Tips information
9	Function buttons

2.2. Symbol

Symbol	Explanation
	Reading status, display the measurement status of reading, stable, locked each indicates that the processing, stable, and reading completed.
PTS	The percentage slope of the pH electrode calibration data
BUFF	The standard buffer solution for calibration
Time	Time to Calibrate Electrodes
	Standard solution for pH electrode calibration
ATC	Auto Temperature compensation
MTC	Manual temperature compensation
	User ID
	Sample ID
Auto Mode	Auto standard recognition
Manual Mode	Input standard

3. pH Operation Quick Guide

3.1. Preparation

1. Install the components of the instrument and connect the pH and temperature electrode.
2. Prepare standard buffer solutions such as pH4.01, pH7.00, pH10.01 standard solutions.
3. Remove the protective cap at the lower end of the pH electrode, pull down the rubber cover at the upper end of the electrode. Expose the top hole, rinse the electrode with distilled water, and dry with filter paper.
4. Press the power key to turn on the instrument.

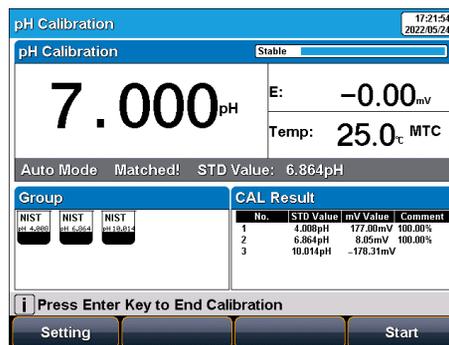
3.2. Calibration

1. Setting.
 - 1) Set the parameters (e.g. pH).
 - 2) Select NIST standard solution group, and check pH 4.01, pH 7.00 and pH 10.01 three standard solutions.
 - 3) Set the Auto Mode recognition.
2. Press the F2"Calibrate"- "pH Calibration".

3. Press "Parameter Settings". Choose pH 4.01 standard solution. Set automatic recognition. After selecting the desired resolution, press the "Enter" key to return to calibrate the pH electrode.
4. Put the cleaned electrode into pH 4.01 standard solution. Wait for the instrument to display "Auto Mode Matched", or the instrument reading is stable, press the F4 "Start".
5. If only 1-point calibration is required, after 1-point calibration is completed, press the "End" key to complete the calibration.
6. If multi-point calibration is required, please replace the pH7.01 and pH10.01 standard buffer solutions. After cleaning the electrode, put the electrode into the standard solution. After the instrument recognizes it successfully, the instrument reads stably, press the "Next Point" to complete the calibration.
7. After completing the calibration, press the "Enter" key to complete the calibration, save the calibration results and end the calibration, directly enter the start interface. If the

PH400F pH Meter Operation Quick Guide

checked standard solution group is 5, automatically end the calibration after five points of calibration.



3.3. Measurement

1. Setting.
 - 1) Set the parameters (e.g. pH).
 - 2) Set the reading mode (e.g. continuous reading, auto-reading, or timed format).
2. Press soft function key F1 to enter "Parameter Setting", select "Reading Mode Setting" to set the required reading mode, which can be set as: continuous, timed and auto reading mode. After the setting is completed, press the "Cancel" key to return to the start interface.
3. Press the soft function key F4 "start measurement" to enter the

measurement interface, after the reading is stabilized (the data stability mark is full), then measure.

4. Press the "Save" to save the measurement results. Press the "Output" to print the measurement result when connect to the printer.

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

