

# I310T pH/Ion Meter Operation Quick Guide

## 1. Specification

Parameters: pH/pX, ion concentration,  
mV, Temperature

pH/pX level: 0.01pH/pX

pH/pX range: (-2.00 ~ 20.00)pH/pX

Ion concentration range:  $1.000e^{-9} \sim 9.999e^{+9}$

Unit: mol/L, mmol/L, g/L, mg/L,  $\mu\text{g/L}$ , ppm ,  
ppb

mV range: (-2000.0 ~ 2000.0)mV

Temperature range: (-5.0 ~ 110.0) $^{\circ}\text{C}$

## 2. Screen Icons



## 2.1. Annotation

No.	Explanation
1	System time
2	Reading mode
3	Measurement parameters
4	Measurement information
5	Calibration information
6	User ID
7	Sample ID
8	Power information
9	Reading State
10	Function buttons

## 2.2. Symbol

Symbol	Explanation
	Reading status
PTS	The percentage slope of the pH electrode calibration data
Ion	Measure ion
Time	Time to Calibrate Electrodes
STD	Calibration point
	Standard solution for ion calibration
ATC	Auto Temperature compensation
MTC	Manual temperature compensation

## 3. pX Operation Quick Guide

### 3.1. Preparation

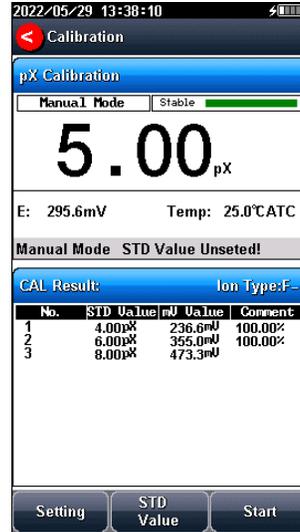
1. Install the components of the instrument and connect the temperature electrode and the ion selection electrode consistent with the ion to be measured.
2. Prepare a standard solution of the ions to be measured, such as F ion standard solution ( $10^{-3}\text{mol/L}$ ,  $10^{-5}\text{mol/L}$ ).
3. Remove the protective cap at the lower end of the ion electrode, rinse the electrode with distilled water, placed in blank solution.
4. Press the power key to turn on the instrument and stirrer.
5. Press the soft function key "Parameter Setting", select measurement parameter setting, and check pX or ion concentration, press the "Enter" key to complete the setting.
6. Select "pX parameter settings", select the ion mode to be tested, and set

the desired result unit, press the  to complete the setting and return to the initial interface.

### 3.2. Calibration

- 1 . Press "Calibrate"->"pX Calibration" to enter the calibration ion electrode, put the cleaned electrode into the standard solution 1, and the stirring should be turned on during the test.
- 2 . Set the "STD value", enter the value of standard solution 1 and confirm, such as 3. After the reading is stable, press "Start".
- 3 . Replace the standard solution 2, after cleaning the electrode, put the electrode into the standard solution, and set the "STD value" such as 5. After the reading is stable, press "Next", Multi-point calibration is recommended for ion measurement to ensure that the measured ion concentration is within the calibration range. Within the range, the instrument supports up to five-point calibration.

- 4 . After completing the calibration, press the "Calibration" key to complete the calibration, save the calibration results and end the calibration, directly enter the start interface.



### 3.3. Measurement

- 1 . Enter "parameter setting" and select "reading mode setting" to set the required reading mode, can be set as: continuous, timed and auto reading mode. After setting, press

the "Enter" key. Return to the start interface.

- 2 . Press  to enter the measurement interface. After the reading is stable (the data is stable, the fixed mark is full), and then measure.
- 3 . Press the "Save" to save the measurement results and print the result.

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

