

1500T pH/Ion Meter Operation Quick Guide

1. Specification

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

pH/pX level: 0.001pH/pX

pH/pX range: (-2.000 ~ 20.000)pH/pX

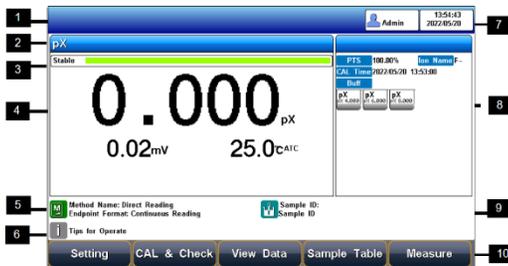
Ion concentration range: $1.000e^{-9} \sim 9.999e^{+9}$

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

mV range: (-2000.00 ~ 2000.00)mV

Temperature range: (-10.0 ~ 135.0) °C
(14.0 ~ 275.0) °F

2. Screen Icons



2.1. Annotation

No.	Explanation
1	User ID

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2	Measurement parameters
3	Reading State
4	Measurement information
5	Method management
6	Operation tip
7	System time
8	Calibration information
9	Sample ID
10	Soft function buttons

2.2. Symbol

Symbol	Explanation
	Reading status
PTS	The percentage slope of the pH electrode calibration data
ATC	Auto Temperature compensation
MTC	Manual temperature compensation
ORP	Redox potential value, in mV
Offset	Offset potential, in mV
	Measurement method management, display the current method information
	Standard solution for pH electrode calibration
	Standard solution for ion calibration

Symbol	Explanation
	User ID
	Sample ID

3. PX Operation Quick Guide

3.1. Preparation

1. Install the components of the instrument.
2. Prepare a standard solution of the ions to be measured, such as F ion standard solution (10^{-3}mol/L , 10^{-5}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. Select measurement method:
 - The default measurement method of the instrument is "No.001 direct reading measurement method", pX measurement parameter, continuous reading mode, if adopting the default method for measurement, this step can be omitted.
 - Press to enter the measurement method management. You can select the

method in the method list or create new methods as required.

6. The main measurement parameter settings of the instrument:

- Reading mode: support continuous, timing and auto reading mode.

The default is continuous reading mode, which can be selected according to your requirements, and press the "Enter" key to complete the setting.

- pX parameters: ion mode, ion measurement mode, resolution and result unit, etc.

Note: Set the same ion mode as the ion to be measured, such as "F-", ion measurement mode such as "Direct reading concentration method", the unit of measurement result is "pX, mol/L, g/L", etc.

3.2. Calibration

1. Select "CAL & Check" -"pX Calibration" to enter the ion electrode calibration interface. If you need to change the calibration parameters, in the calibration state, you can select "parameter setting" to modify the ion measurement mode,

1500T pH/Ion Meter Operation Quick Guide resolution, alarm limit, calibration reminder and other information.

2. Set the "STD value", enter the value of standard solution 1 and confirm, such as 5.000pX. After the reading is stable, press "Start", the instrument will display the calibration result after completion.
3. Replace the standard solution 2, after cleaning the electrode, put the electrode into the standard solution, and set the "STD value" such as 3.000pX. After the reading is stable, press "Next point", complete the 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. 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 six-point calibration.



3.3. Measurement

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

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

