A. Prepare calibration solution (use CO2-free distilled water at about 25°C to prepare PH4.00 and PH9.18 calibration solution)

1. Wash the two 250ml measuring cups with CO2-free distilled water, and mark PH4.00 and PH9.18 on the outside of the two measuring cups respectively.
2. Put the PH4.00 buffer powder into the measuring cup marked as PH4.00 in step 1.
3. Rinse the inner wall of the plastic bag with a small amount of CO2-free distilled water and pour it into the corresponding measuring cup, then dilute to 250ml with CO2-free distilled water, shake well and set aside.
4. Put the PH9.18 buffer powder into the measuring cup marked as PH9.18 in step 1.
5. Rinse the inner wall of the plastic bag with a small amount of CO2-free distilled water and pour it into the corresponding measuring cup, then dilute to 250ml with CO2-free distilled water, shake well and set aside.

Note: Due to the limited range of temperature compensation in the calibration state, it is best to control the temperature of the CO2-free distilled water used to prepare the calibration solution around 25°C! If the prepared calibration solution needs to be reused, please keep it sealed, and only if the calibration solution is not polluted to reuse!

B. Calibrate the sensor (as long as the calibration process has not been carried out to step 9, the current calibration process can be terminated in advance by long pressing the calibration button, sensor still works with the parameters of the last successful calibration.)

1. Clean the electrodes and temperature sensor with clean water and dry them with a soft paper towel.
2. Correctly connect the sensor power supply, PH electrode and temperature sensor.
3. Immerse the electrode and temperature sensor in the prepared pH4.00 calibration solution at the same time.
4. Press and hold the calibration button until the calibration indicator lights yellow, then release the button.
5. Quickly press the calibration button twice until the calibration indicator light flashes red, at this time the sensor is in the process of calibrating PH4.00 (The duration of this process is 30 seconds). After the calibration is completed, the calibration indicator light is always red.
6. After the calibration indicator light is always red, take the pH electrode and temperature sensor out of the pH4.00 calibration solution, and then use clean water to clean the electrode and temperature sensor and dry them with a soft paper towel (this process does not need to remove the electrode and temperature sensor from the sensor)

Removing the pH electrode or temperature sensor before the calibration process is completed normally will cause the calibration process to end prematurely, and so not save this calibration data!

7. Immerse the electrode and temperature sensor into the prepared pH9.18 calibration solution at the same time.
8. Quickly press the calibration button once, then the calibration indicator flashes green, and the sensor is in the process of calibrating PH9.18 (this the process time is 30 seconds), after the calibration is completed, the calibration indicator light will be green for 20 seconds, and

then yellow will flash for 20 seconds to indicate that it is about to save the calibration data.

9. Loose, broken, good or bad detection (automatic judgment) and data storage of electrodes and temperature probes:

During the calibration process, if the temperature probe or electrode is damaged, loose, or the electrode does not match, the calibration indicator will be red and green.

The color will flash alternately to give an alarm. After flashing for 20 seconds, the indicator light will go out, and the current round of calibration is over, and the data of this round of calibration will not be saved.

During the calibration process, if the electrode and temperature probe detect no faults, the sensor will automatically store the data of this round of calibration at this time, and the calibration indicator is always on yellow for 20 seconds, and the current round of calibration is over.