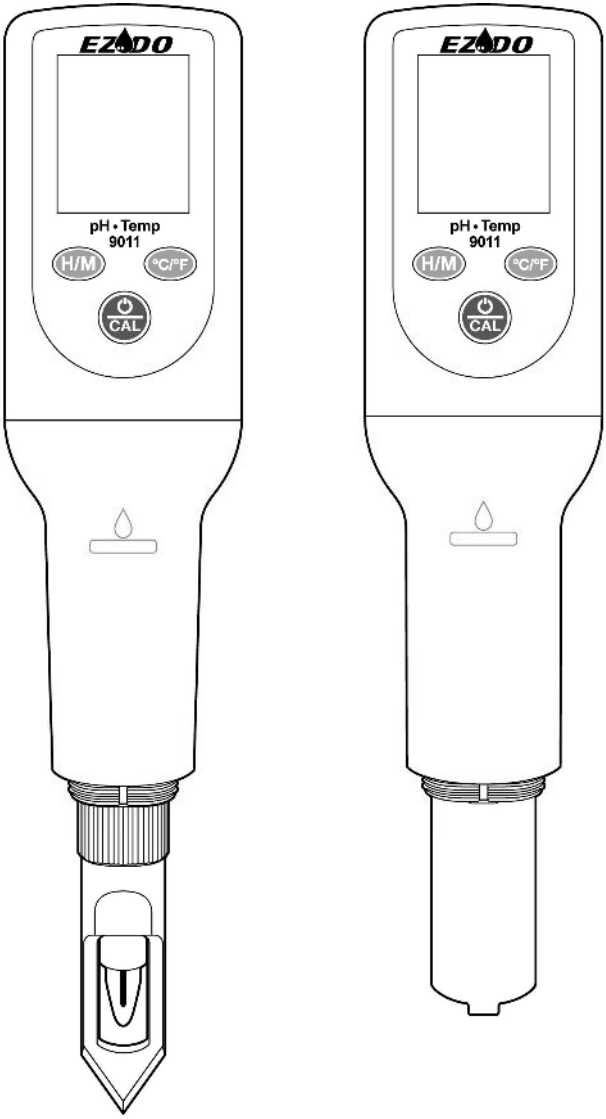
User's Guide

9011

pH/Temp. Meter



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Introduction:

Thank you for purchasing our 9011S or 9011F pocket pH/Temperature Meter.

Before using your new meter, please take the time to carefully review the included operation manual. This will help ensure optimal performance and longevity.

Please note that the information in this manual may be subject to change without prior notice.

Features:

- The microprocessor-based design and rugged housing with a splash-proof keyboard ensure durability and protection against water splashes.
- The pointed pH electrode is suitable for semi-solid samples.
- With a stainless-steel piercing head, the pointed pH electrode can be used for samples that require piercing, such as meat.
- Flat pH electrodes can be used for small quantities of samples or flat samples.
- Reading hold and Max/Min functions.
- Users can change the pH electrode module easily.
- Automatic shutdown feature.

Specifications:

	pH	**Temp.**
Range	-2.00~16.00 pH	0~90 ℃
Accuracy	±0.01+1 digit	±0.2+1 digit
Resolution	0.01 pH	0.1 ℃
Compensation	ATC: 0~90 ℃	N/A

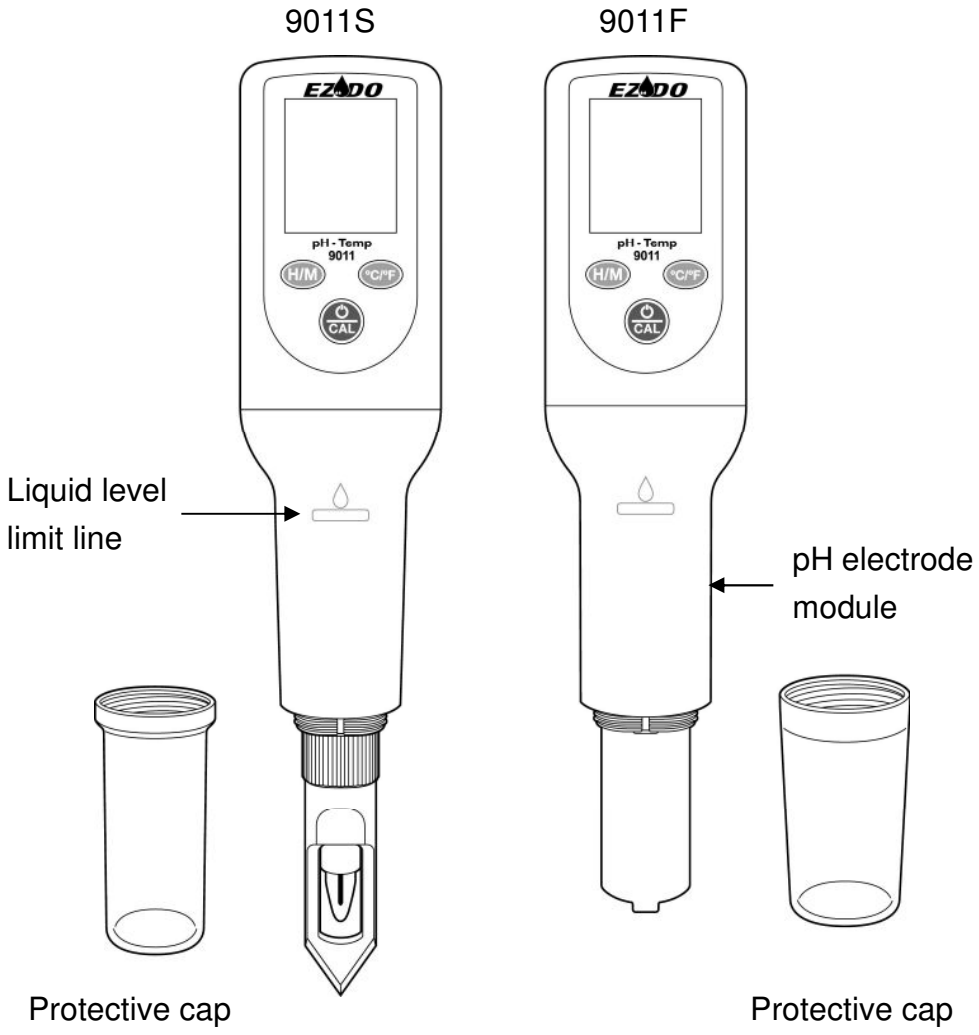
Models:

- 9011S: pointed pH electrode with a stainless-steel piercing head.
- 9011F: flat pH electrode.

Accessories:

- pH buffer solution pH4 and pH 7 50ml
- Soaking solution 5ml
- CR-2032 battery x 4
- Small screwdriver
- Hard carrying case

Device Description:



Functions of Keyboard:

	Turn on or off the power. Press and hold for 3 seconds to enter calibration.
	Press to hold the current reading. Press and hold for 3 second to enter Max/Min mode.
	Press and hold for 3 seconds to switch ℃/℉.

Preparation:

1. Unscrew the protective cap from the electrode, and keep the soaking solution in the cap.
2. Rinse the electrode with clean water and wipe it dry.

Calibration:

1. pH 7.00 Calibration

- Dip the electrode into the pH 7.00 buffer solution.
- Gently stir the solution and wait for a stable reading.
- Press and hold the "Power/CAL" button for 3 seconds to enter calibration mode.
- The display will show "CAL" and flash "7.00."
- Once the display stops flashing and shows "SA" and then "End," the calibration is complete.

2. pH 4.01 or 10.01 Calibration

- Rinse the electrode with clean water and dry it gently.

- Dip the electrode into the pH 4.01 or 10.01 buffer solution.
- Follow the same steps as for the pH 7.00 calibration.

3. Slope Calibration

- After calibrating with pH 4.01 or 10.01, the display will show the percentage of slope (PTS).
- A PTS of 100% is ideal.
- If the PTS is below 70% or above 130%, the electrode may need to be replaced.

Note:

1. **Calibration Error:** If calibration fails, the display will show "Err" instead of "SA."
2. **Calibration Sequence:** When performing a 2- or 3-point calibration, always start with the pH 7.00 buffer solution.
3. **Calibration Points:** pH 1.68, 4.01, 7.00, 10.01, and 12.45.

Measurement:

Calibrate the electrode with the appropriate buffer solutions. Then, rinse the electrode with distilled water and gently pat it dry. Immerse the electrode in the sample solution, stir gently, and wait for a stable reading.

After measurement, ensure the protective cap contains soaking solution before reattaching it to the electrode.

MAX/MIN mode:

1. Press and hold the "H/M" button until the "MAX" and "MIN" icons start flashing on the display.
2. After a measurement period, briefly press the "H/M" button to cycle through the maximum and minimum values recorded.
3. Press and hold the "H/M" button again until the "MAX" and "MIN" icons disappear and the display returns to normal measurement mode.

Auto-off function and reset the meter:

1. When the meter is turned on, press and hold the "H/M" and "C/F" buttons simultaneously.
2. After approximately 3 seconds, "AtP" will appear on the bottom of LCD.
3. Press "H/M" button to toggle the "auto-off" function “on” or “off”, then press the "Power" button to confirm.
4. After setting the "auto off" function, "rSt" will appear on the bottom of LCD.
5. Press the "H/M" button to toggle between "no" and "YES". Choose "YES" and then press the "Power" button to reset the meter and clear all calibration records. If you do not want to reset the meter, just choose "no".