



# pH-2024 Manual

## Company Information

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## Description:

The pH-2024 is a fast and highly accurate water quality testing instrument that can measure pH and salt content. It is waterproof with an IP67 rating and can be used in a wide range of applications. It is ideal for testing water quality in various settings, such as rivers, swimming pools, factories, aquariums, and schools to determine the pH and salinity levels of the water.

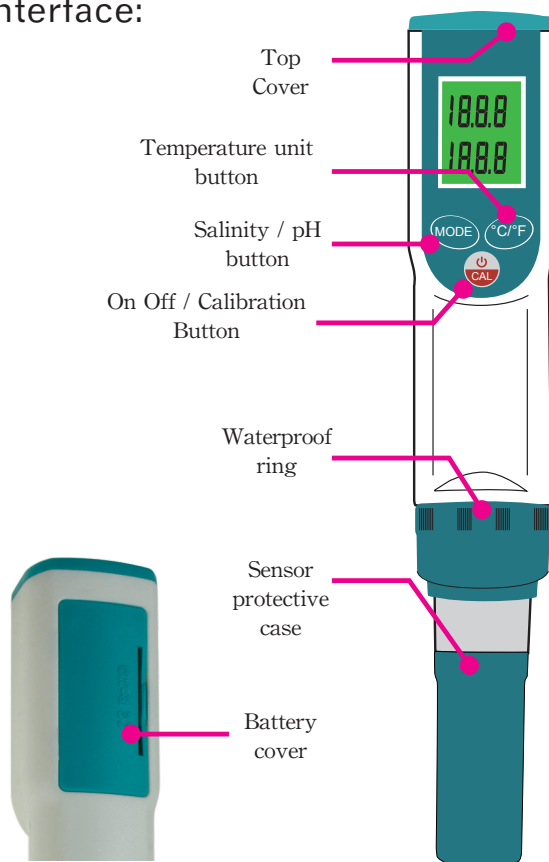
## Product Features:

- Three-in-one water detection for pH, salinity and temperature.
- Microprocessor technology for fast and accurate testing.
- Durable ergonomic design.
- Stylish appearance, compact and easy to carry.
- Easy to read with backlight display.
- IP65 waterproof rating.
- Low battery indicator.
- Auto-sleep power saving.

## Specifications:

	pH	Temp	Salinity
Range	0 ~ 14.00pH	0~50 °C	0 ~ 100.0 ‰
Accuracy	±0.02 pH	±0.5 °C	±2 %FS
Resolution	0.01 pH	0.1 °C	0.1 ‰
Automatic compensation	0 ~ 50 °C		0 ~ 50 °C
Standard	pH: 4.01 / 6.86		35ppt
Operating Environment	0 ~ 60 °C		
Operating Environment	1.5V Battery (AAA) x 2 pcs		
Appearance	207 x 32 x 36 mm (85 g)		

## Interface:



## Operating Instructions:

### I. First use

Before using the instrument, clean the sensor with distilled or pure water, and dry the poles before the first calibration..

### II. Calibration pH

1. Turn on the instrument and select pH measurement mode using the "MODE" key. Place the instrument in pH 6.86 standard liquid until the displayed value is stable and not fluctuating.
2. If the displayed value differs from 6.86 by more than 0.05, enter 6.86 calibration by pressing and holding "CAL" for 5 seconds. Wait for 3 seconds to start the calibration.
3. If an "Err" error occurs during calibration, check if the liquid is correct and whether the sensor is aging or damaged.
4. To perform pH 4.01 calibration, clean the electrode with

pure or distilled water and wipe it dry.

5. Immerse the electrode in pH 4.01 standard solution, enter 6.86 calibration by pressing and holding "CAL" for 5 seconds. Then, press "MODE" to switch to 4.01 calibration and wait for 3 seconds to start the calibration.
6. If an "Err" error occurs during calibration, check if the liquid is correct and whether the sensor is aging or damaged.
7. If there are no errors, the calibration is complete.

### III. Caution when using

Please calibrate for the following conditions:

1. In case of frequent daily use (e.g., for several hours a day.)
2. When the storage time is more than one month.
3. When high precision measurement is required.

### IV. Calibration Salinity(‰)

1. Turn on the instrument and select salinity measurement using the "MODE" key.
2. Clean the electrode with water, pure water, or distilled water. Then, immerse it in 35 ppt liquid and wait for the value to stabilize.
3. If the value error is above 2 ‰, enter 6.86 calibration by pressing and holding "CAL" for 5 seconds. Then, press "MODE" to switch to 35 ppt calibration and wait for 3 seconds to start 35 ppt calibration.
4. If the display shows 35 ppt, the calibration is complete. Clean the electrode with water, pure water, or distilled water.
5. Wipe the electrode dry to finish the calibration process.

## Maintenance and Cleaning:

- Avoid using strong cleaning agents on the pH-2024 case and electrodes. If the damage is severe, wipe with alcohol and water.
- Be very careful when wiping the electrode as it is extremely fragile. The electrode is a consumable product, so if you notice that it is aged and not working accurately, consider replacing it to restore the accuracy.

## Warranty:

TECPEL offers a one-year warranty on all products sold, but consumables such as electrodes, batteries, and sensors are not included in this warranty.

If a newly purchased product is defective, it can be returned to the store where it was purchased within 7 days to ensure your rights are protected.