

# MPH 300 PH Meter

## Instruction Manual



Part Number: 7603151  
GTIN: 6298043998147

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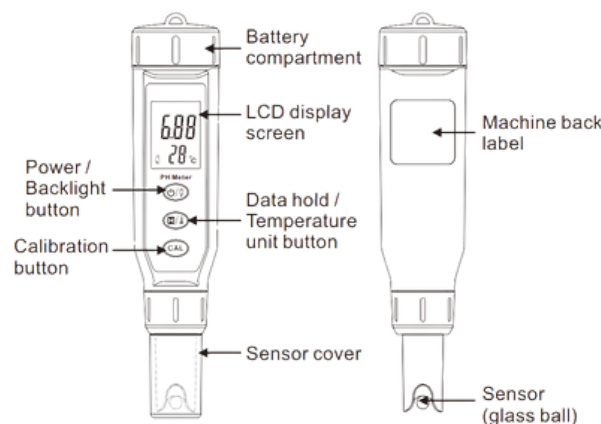
### A. Introduction

This product delivers high accuracy, with stable, reliable, and portable performance. It is designed for measuring the pH value and temperature of solutions, making it suitable for applications in industry, power, agriculture, medicine, food processing, scientific research, and environmental protection.

#### Product Features:

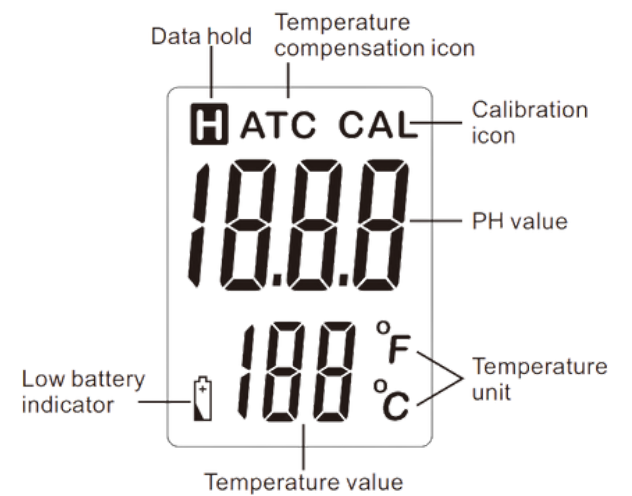
1. pH value measurement of solutions
2. Solution temperature measurement
3. LCD backlight hold
4. Data hold function
5. Switchable temperature units (°C/°F)
6. Power-off memory
7. Automatic temperature compensation
8. Low battery indication

### B. Components of the product



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### C. LCD Display



#### Display instructions

[H]	The reading is locked, and the data will remain unchanged
[ATC]	Calculation after temperature compensation
[CAL]	Entering calibration model
[Lo]	pH value is lower than 0
[Hi]	pH value is above 14
[NUL]	No sensor connection detected
[Battery flickering]	Low power, the product will automatically shut down if the state of low power lasts for long, please replace the battery in time

### D. Operation Instructions

#### 1. Power On/Off

- Short press [ON/OFF] to power on.
- Long press [ON/OFF] to power off.

#### 2. Backlight

- The backlight is enabled by default.
- Short press [ON/OFF] to turn it off.
- If no operation occurs for ~1 minute, the backlight turns off automatically.

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#### 3. Data Hold

- With the device powered on, short press [H].
- [H] will appear on the display, indicating the pH value is locked.
- If powered off in this state, the locked pH value will be saved.

#### 4. Temperature Unit Switch

- Long press [H/°] to toggle the temperature unit between °C / °F.

#### 5. Calibration

##### (1) Sequential Calibration

- Calibration points: SA1 = pH 4.00, SA2 = pH 6.86, SA3 = pH 9.18.
- Automatic calibration recognizes solutions in sequence (4.00 → 6.86 → 9.18) and saves values.
- With the device on, long press [CAL]. The LCD displays [CAL] and flashes [SA1].
- Place the sensor in pH 4.00 solution (glass bulb fully submerged). Short press [CAL] to display ADC value.
- Once stable, short press again (or wait 3 minutes) to record.
- Remove and rinse sensor for 1 minute, then gently dry.
- When [SA2] flashes, place the sensor in pH 6.86 solution and repeat. Continue until SA1-SA3 are complete, then [End] appears. The device exits calibration automatically after 1 minute.
- If [Err] appears, calibration order was incorrect or the sensor is faulty. Exit and recalibrate, or perform single-point calibration.

##### (2) Single-Point Calibration

- Requires prior sequential calibration (factory units are not pre-calibrated).
- Long press [CAL]; the LCD displays [CAL] and flashes [SA1].
- Short press [H/°] to cycle through [SA1] → [SA2] → [SA3] → [CAC].
- Select the desired calibration point. Short press [CAL] to display ADC value, wait for stabilization, then press again to record.

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- To finish, short press [H/°] to switch to [CAC], then short press again to complete calibration.
- If calibrating at SA3, the calibration completes automatically.

### E. Technical parameters

PH measuring range	0.00 ~ 14.00
PH resolution ratio	0.01
PH measuring error	± 0.05
Temperature measuring range	0-60°C (32-140°F)
Temperature resolution ratio	1°C
Temperature error	± 1.0 °C
Power supply	Button Battery LR44 1.5V * 3
Display	LCD big screen display
Working environment temperature	0-60°C
Working environment humidity	≤ 85%RH
Backlight	White backlight
Size	41*42*189.23mm
Weight	83.8g

### F. Attention

- Before first use or calibration, fill the protective cover with Storage (Cache) solution to fully soak the sensor and keep the sensor bulb wet. If dry, soak for more than 2 hours.
- After use, rinse the sensor with water, then store it in Storage (Cache) solution for the next use.
- Do not expose calibration solution to air for more than 4 hours; use fresh solution for each calibration.
- After prolonged exposure to acid or alkali solution, clean the sensor and wipe with a paper towel before measurement.
- Follow powder usage instructions for calibration solution preparation.

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### G. Accessories

PH Meter	1PCS
PH4.00 Powder	1PCS
PH6.86 Powder	1PCS
PH9.18 Powder	1PCS
Instruction Manual	1PCS
Button Battery LR44 1.5V	3PCS
Cache solution	1PCS

#### Disclaimer

The manufacturer assumes no responsibility for any consequences resulting from the use or misuse of this product. Product specifications and manual content are subject to change without prior notice.

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