

multicomp PRO



**pH Meter Instruction Manual
MP780647**

1-Introduction

The MP780647 pH Meter measures a wide range of conductivity. Careful use and maintenance will provide years of reliable service.

Getting Started

- 1-Remove the cap from the bottom to expose the pH electrode, reference junction and conductivity electrodes.
- 2-Before the first use or after storage, soak the electrode in tap water or pH 4 buffer solution for 10 minutes.
- 3-White KCL crystals may be present in the cap or on the electrode. This is to be expected depending on the length of time in storage. These crystals will dissolve while soaking the electrode or they can be rinsed away with tap water.
- 4-For best results calibrate with pH 7 buffer solution first, then calibrate with the buffer solution closest to the expected pH value of the solution or material to be tested.

2-Features

Range: 0 to 14.00 pH	LCD indicates both pH & Temp.
Pen type digital pH meter, all in one, pH electrode is included, easy to use	Data hold function for freezing the desired value
Water proof and protection	Auto power off without any operations after 10 mins
Supplied with a set of pH 4.01, pH 7.00, pH 10.01 buffers	Microcomputer circuit, intelligent function, high accuracy
Easy to change the pH electrode	Compact size, light weight
Options temperature measurement, °C or °F	Power supply by DC 1.5V battery (LR44, BAT) x 4 Pcs
Build in temperature sensor, ATC (auto temperature compensation)	Available for wide applications, such as aquarium, beverage, fish hatcheries, food processing, photography, laboratory, quality control, school & colleges, swimming pools, water conditions
Auto calibration for pH 4.01, pH 7.00 and pH 10.01	

3-Specifications

Display	LCD, size: 20mm x 27mm. Consumption	
Measurement Range	pH	0 to 14.00pH
	Temp.	0 to 50°C(32 to 122°F)
Resolution	pH	0.01pH
	Temp.	0.1°C/0.1°F
Accuracy	pH	±0.03pH(After calibration)
	Temp.	±0.8°C/±1.5°F
pH Calibration	pH 7.00, pH 4.01 or pH 10.01, 3 points calibration	
Operating Humidity	Less than 80%RH	
Dimension	188 x 38(electrode included).	
Weight	82g(electrode included).	

4-Operating Instruction

Do not screw the probe cap at the bottom of the pH meter, pull it out directly!

4-1.Hold Feature

A flashing dot will be displayed during the measuring mode, Press HOLD to freeze the current reading. Press HOLD again to release the hold mode.

4-2.Temperature Measurement °C or °F

The default temperature measurement is °C. While the meter is off, press CAL and ON/OFF at the same time until the "°C" or "°F" appears on the LCD. Press HOLD to select the preferred unit and then press CAL to save. "SA" will appear on the LCD for one second and then back to normal.

4-3. Automatic Temperature Compensation(ATC)

The product is capable of measuring the temperature and making compensation automatically, "ATC" shows at the left corner of the screen.

4-4. Calibration

- 1-Prepare 4.01 and 7.00 or 10.01 pH buffers, Use 7.00 pH buffer for the mid-range buffer first. The pH values for the buffers are given for 25°C. If the sample temperature is not 25°C, the pH values displayed for the buffers will reflect the correct pH value for the sample temperature. If the electrode is dry, submerge it in distilled water for 10 minutes before calibration. Ensure that the calibrating buffers are fresh.
- 2-Press ON/OFF key to turn the meter on, submerge the probe in the buffer while stirring gently. Then keep it still until a stable reading is reached. Press CAL for 3 seconds until the Text "CAL" appears. Then release CAL, the meter will identify the current buffer value automatically, and display 7.00 in the LCD. The result will be saved while the text "SA" displayed after 2 seconds. The meter will back to measuring mode after 1 second while text "End" showed.
- 3-If text "End" is showed after press CAL, it means the calibration buffer is not fresh or the probe is aging.
- 4-Do not take out the probe from the buffer until text "End" is displayed on the LCD.
- 5-Repeat these steps when calibrating pH 4.01 and 10.01.

If Out of the Range

- 1-If the pH value is lower than 0 or higher than 14, "-- --" will be displayed.
- 2-When the temperature is too low or too high, "L" or "H" will be displayed.

Low Power Indication

Change batteries if all the digits in the LCD are flashing.

MAINTENANCE

Please always keep the ph glass bulb capped for protection when storing. Always rinse the ph electrode in distilled water before use. Never touch or rub glass bulb or it may reduce the life of the electrode.

Note:

How to prepare the buffer solution
Solid material for pH4.01, pH7.00, pH10.01 buffer solution are provided in a set of sachets.
Glass jars or beakers are recommended as the solution containers.

Take making the 250ml buffer solution of pH 7.00 as an example:

- 1-Put the pH 7.00 buffer material (in the green sachet) in a jar (the volume should be no less than 250ml).
- 2-Fill the jar with 250ml distilled water.
- 3-Use a glass stick in the solution, stirring it until the white powder has dissolved.
- 4-Store the buffer solution in the cool and dry place. Attach a label on it for further use.

For the further calibration, Ensure that there is a constant supply of fresh buffer solution in contact with the probe. Discard the solution after use



INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT

These symbols indicate that separate collection of Waste Electrical and Electronic Equipment (WEEE) or waste batteries is required. Do not dispose of these items with general household waste. Separate for the treatment, recovery and recycling of the materials used. Waste batteries can be returned to any waste battery recycling point which are provided by most battery retailers. Contact your local authority for details of the battery and WEEE recycling schemes available in your area.

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