

130 mm

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Please read this manual carefully before use of the product.

sisco

User Guide of the Pen pH (Acidity) Meter



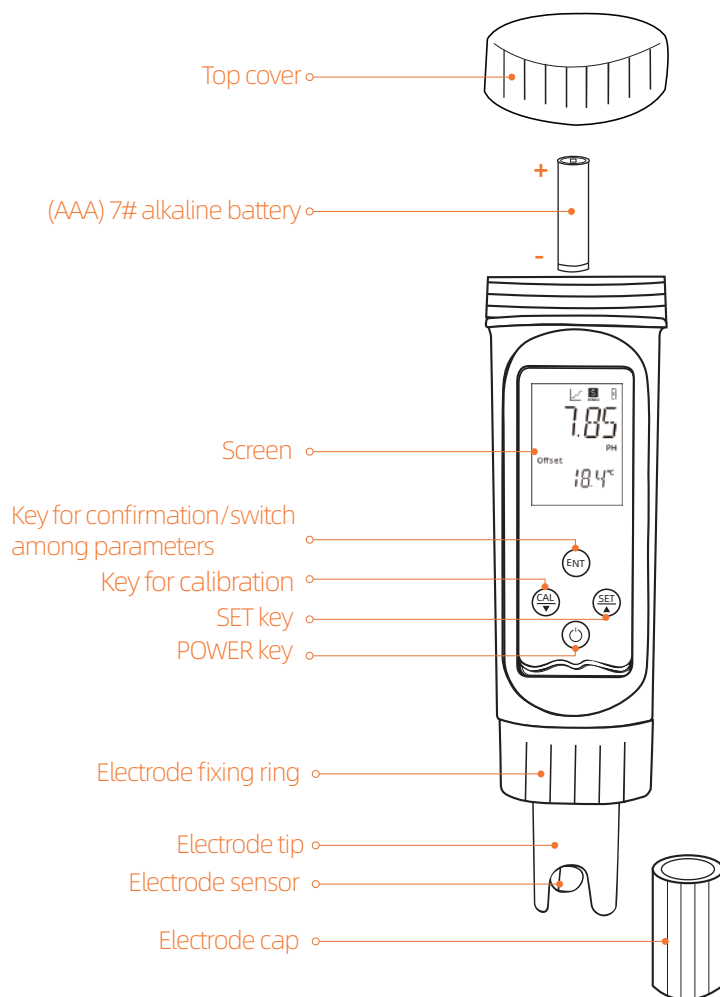
195 mm

Packing List

- Main unit × 1
- (AAA) 7# alkaline battery × 1
- Calibration solution × 3
- User guide and certificate of quality × 1

Product Structure

The display screen varies slightly for different models.



Precautions for Use

When using the pH meter, please unplug directly, rather than turn the electrode cap, so as not to damage the electrode!

1. Please check the glass electrode sensor before each use. In the event of some air bubbles found, please shake the pH meter gently to remove them.
2. If the glass electrode sensor is dry, please soak the electrode in its storage solution for more than 1 hour.
3. After use of the pH meter, please clean the electrode sensor with purified water.
4. To keep the sponge in the electrode cap moist, you may apply an appropriate amount of purified water, or some electrode storage solution on it if necessary.
5. In case of any oil or grease, etc. contained in the sample, please clean the electrode sensor with a neutral detergent after use.
6. The temperature of the sample to be tested cannot exceed the range of 0-60°C/32-140°F, otherwise the measured value will be inaccurate, or even the electrode sensor will be damaged.
7. Please replace the battery timely when the meter is in a low battery, since low battery will cause a measurement error or error alarm.

Caution

1. Don't wipe or rub the electrode tip, and even make the electrode sensor in contact with sharp objects, since the electrode sensor is made of special sensitive glass membrane.
2. It is recommended to replace the electrode sensor timely as it will degrade in performance one year after it leaves the factory.
3. Try not to measure corrosive liquids such as strong acid and alkali directly with the pH meter. In case of any need to measure strong acid or alkali, please soak the electrode sensor in the electrode storage solution for more than 12 hours after the measurement.
4. Don't soak the electrode in any solution other than its storage solution for long hours to avoid the failure of the electrode sensor.

Warranty

This product (exclusive of batteries, buffers and other accessories and consumables) is guaranteed for 1 year from the date of purchase. The electrode sensor is guaranteed for 6 months, with its damage not covered.

*** Please contact your supplier if you have any problems in use**

Technical parameters

Model Number	SISCO-PH-10E	SISCO-PH-10M	SISCO-PH-10H SISCO-PH-10HA
Screen	Segment code screen	M-shaped digital screen	
Backlight	Orange backlight		Multicolor
MCU	16-bit	32-bit	
pH measuring range	0-14.00pH	0-16.00pH	
pH accuracy	±0.01pH		
Temperature compensation	Automatic, 0-60°C/32-140°F		
Operating environmental temperature	0-60°C/32-140°F		
Temperature accuracy	±0.1°C		
Temperature sensor structure	Built-in	External	
Standard electrode sensor	Radius tip electrode sensor	SISCO-PH-10M Radius tip electrode sensor	SISCO-PH-10H Planar electrode sensor
		SISCO-PH-10E Planar electrode sensor	SISCO-PH-10HA Radius tip electrode sensor
IP grade	IP67		
Autolock	Equipped		
Sound switch	Not equipped	Equipped	
Thermometric scale unit	°C/°F		
Reset	Equipped		
Compatible calibration standards	Defaults to the CHN 3-point calibration; USA 2-point calibration		
Bluetooth switch	Not equipped		Equipped
Data interface protocol	Not equipped		Equipped
Automatic backlight off	180 seconds		
Automatic shutdown	Automatic shutdown in 300 seconds under no operation		
Power source	1.5V (AAA) 7# alkaline battery × 1 PCS		
Dimensions	43*175mm		

Troubleshooting

Only some models support displaying and setting fault codes.

Fault Codes	Fault Diagnosis	Solution
E-01	Electrode sensor damaged or aged	Replacement of the Electrode Tip
E-02	Low battery	Replace the batteries, with (7#) AAA alkaline batteries recommended
E-03	Unknown error	Free replacement for non-man-made faults during the warranty period
E-04	Use for purposes other than the intended ones	Clean the electrode sensor and use it as instructed
E-05	Other hardware faults	Free replacement for non-man-made faults during the warranty period

Button function

Button	function
POWER key	<ul style="list-style-type: none"> Long press it to turn on or off the pH meter, and short press it to turn on or off the backlight
CAL key	<ul style="list-style-type: none"> Long press it to enter the calibration mode, and short press it to switch to the next calibration point. In setting mode, switch among options of the current menu
SET key	<ul style="list-style-type: none"> Enter the setting In setting mode, cycle in order to enter the next setting menu
ENT key	<ul style="list-style-type: none"> In calibration mode, save calibrations and exit the calibration mode. In setting mode, save the current setting options and exit the setting menu.

Description for Setup Menu

There are only a part of models supporting display and setting of menus or options with the symbol ※. For different models, they are displayed with slight differences.

Display Menu	Description for Menu Features	Configurable Options	Option Description	Factory Default
UNIT	Thermometric scale unit	°C	Celsius	✓
		°F	Fahrenheit	
LOCK	Autolock	ON	Enable	✓
		OFF	Close	
LOC	Calibration Standard	CHN	JB/T 8276-1999 Standards	✓
		※USA	USA 4.00 7.00 Two-point Calibration	
※BUZZ	Buzzer switch	ON	Enable	✓
		OFF	Close	
※COLO	Background color setting	ORAN	orange	✓
		WHIT	White	
		GREE	Green	
※BLUE	Bluetooth switch	PINK	Pink	
		ON	Enable	
		OFF	Close	✓
rESE	Restore to factory settings	No	No	
		Yes	Restart	

Note: enabling Bluetooth will increase the power consumption.

pH Calibration

It defaults to the CHN calibration mode in factory. In case of any need of change by yourself, please use the corresponding buffer.

- It is required to calibrate this meter in first use, replacement of batteries and the electrode tip. To guarantee the accuracy of testing, it is recommended to regularly calibrate it once every 2-4 weeks.
- Please store the buffer at a low temperature in the dark, and don't reuse it. Don't continue to use it in case of any flocs or spots found in it.
- In case of any need of preparing the buffer by yourself, please refer to the GB/T 27501-2011 standard.
- Please wash the electrode sensor before immersing it into the next buffer to improve the calibration and test accuracy.

1. Prepare well buffers in three pH standards of 4.00, 6.86 and 9.18.

2. Clean the electrode sensor with purified water, and long press "POWER" to start this meter. Then, immerse completely the electrode sensor into the pH 4.00 buffer, and long press "CAL" to wait for "- - -" displayed and flashing in the monitor measurement area, indicating it enters the calibration process, with "4.00" displayed on the lower right side of the monitor. Then, gently stir the pH meter a few times to wait for "PASS" displayed on the monitor, indicating the calibration for pH 4.00 is passed.



3. Immerse completely the electrode sensor into the pH 6.86 buffer, gently stir the pH meter a few times, and then short press "CAL" to wait for "6.86" displayed on the lower right side of the monitor. Then, wait for "PASS" displayed on the monitor, indicating the calibration for pH 6.86 is passed.

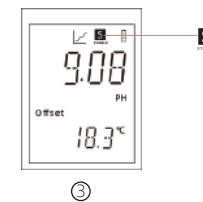
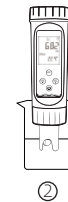


4. Immerse completely the electrode sensor into the pH 9.18 buffer, gently stir the pH meter a few times, and then short press "CAL" to wait for "9.18" displayed on the lower right side of the monitor. Then, wait for "PASS" displayed on the monitor, and press "ENT" to complete the calibration.

Operation method

When using the pH meter, please unplug directly, rather than turn its electrode cap, so as not to damage the electrode sensor!

Washing the electrode sensor before immersing it into the sample to be tested could improve the test accuracy.



1. Long press "POWER" to turn it on, and then rinse the electrode sensor with purified water;
2. For models with a radius tip electrode: completely immerse the electrode sensor in the water sample to be tested and gently stir it for several times. After the monitor displays the stable value icon "S", the current value displayed is the pH value of the sample, with the sample temperature displayed in the lower right corner.
3. For models with a planar electrode: lay the sample to be tested and completely wet it by dripping a few drops of purified water on its surface, and then stick the flat surface of the electrode sensor on the wet surface. After the monitor displays the stable value icon, the current value displayed is the pH value of the sample, with the sample temperature displayed in the lower right corner.

Replacement of battery

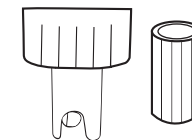
1. Turn left to remove the top cover;
2. Push to open the battery compartment cover;
3. Replace the spent batteries with new ones (7# (AAA) alkaline dry batteries recommended);
4. Close the battery compartment cover;
5. Turn right to screw down the top cover.



Note: when installing, please check if the waterproof ring in the top cover is installed into place, and meanwhile, please screw right properly the top cover to guarantee its resistance to water and dust.

Replacement of the Electrode Tip

1. Unplug directly the electrode cap;
2. Unplug, rather than turn, the electrode tip, so as not to damage the circuit;
3. Align the two electrode slots to push the electrode tip into the main unit;
4. Turn right to screw down the electrode fixing ring;
5. Mount the electrode cap.



Note: when installing, please check if the gasket in the electrode fixing ring is installed into place, and meanwhile, please screw right properly the electrode fixing ring to guarantee its resistance to water and dust.