

# AQUASOL DIGITAL

## BENCH TOP PH / ORP METER

### ABT201



Product Manual / Warranty Card

## Introduction

We thank you for having purchased bench top meter. Before using the instrument, please note that the operation instructions should be read carefully, which will help you to operate and maintain the instrument.

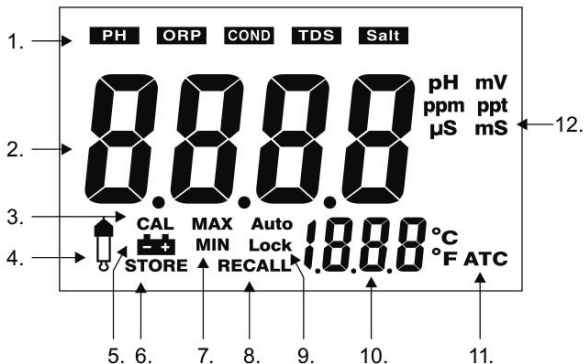
## Specification:

Model	ABT201 - Bench Top pH / ORP Meter		
Parameter	pH	ORP*	Temp
Range	(-)2.00 to 16.00	± 1999 mV	0 to 110 Deg C
Accuracy	1%	2%	±0.2
Resolution	0.01 pH	1 mV	0.1 Deg C
Calibration	pH - 5 Point USA (1.68/4.00/7.00/10.00/12.46) pH - 5 Point NIST (1.68/4.00/6.86/9.18/12.46)		
ATC	Yes (100 Deg C)		
Battery	9V Battery <i>(Not Supplied with Meter)</i>		
Sensor*	pH & Temperature sensors included. To measure ORP, AMEORLG Required.		

## Accessories:






pH/ORP Sensor, Temp. Sensor, Standard Solution,  
Power Adapter, Electrode Holder, USB Software,

## Display Details



1. Function Mode
2. Measuring Value
3. Calibration Mode
4. Calibration error Indicator
5. Battery Power Low Indicator
6. Reading stored indicator
7. MAX & MIN Value
8. Recall Mode
9. Auto lock or manually lock current reading
10. Temperature Indicator
11. Auto Temperature Compensation
12. Unit

## Keyboard Details

	Single Press Lock the current reading, Press for 3 sec. to enter or exit MAX/MIN mode.
	Single Press to Store the current reading. Press 3 sec. to enter Recall mode.
	In Recall mode, browse records. Press both together 3 sec. to enter Advance Setting
	Single Press to Choose different Function mode. Press 3 sec. to switch °C/°F, or switch pH-mV or ORP-mV
	Turn on or off power. Press 3 sec. to enter calibration mode

## Meter Preparation

- 1) Connect AC adaptor with power source.
- 2) Connect the pH/ORP and Temperature Electrode
- 3) Clean the Electrodes with DM Water and Power On the Meter

## **pH Calibration:**

**pH 7 :** Dip the pH electrode and the temperature probe into the pH 7.00 buffer solution and Stir gently until the reading is stable. Press and hold CAL for 3 seconds & the display will appear CAL and flashing 7.00. Then the display indicates "SA", then "End" i.e. calibration is done. Meter will return to Measurement Mode.

**pH 4 :** Rinse the electrode with clean water and wipe it dry. Dip the electrode into the buffer solution pH 4.01 as previous steps. Once Calibration is done the display will indicate the percentage of slope (PTS) to show the status of the electrode. If the PTS is below 70% or above 130%, the electrode must be replaced.

## **pH 10 :**

Note: Calibration error indicator icon will appear, and "Err" instead of "SA", if calibration fails. When doing a calibration, Calibrate with buffer pH 7 first, and then follow with other buffers.

## **ORP Calibration**

Calibration is not necessary for ORP. However, it could be tested with specific ORP standard solution to check whether the electrode is good.

## **pH / ORP Measurement:**

Press **MODE** to choose pH / ORP mode.

After calibration, rinse the pH / ORP electrode with clean water and wipe it dry. Dip the electrode and the temperature probe into the sample solution which is going to be measured. Stir gently and wait until a stable reading can be obtained.

Note:

The display will appear “----” when it is over measuring range.

After measurement, rinse the electrode with clean water. Replace the soaking bottle. The soaking bottle should be always filled with soaking solution

## **MAX/MIN mode:**

Press and hold **MAX/MIN** button until the display appears flashing MAX and MIN icons to enter MAX/MIN. Press **MAX/MIN** lightly to browse MAX and MIN value during this mode. To exit this mode, press and hold **MAX/MIN** button again until the flashing MAX and MIN icons disappear and return to measuring mode.

## Store and Recall mode:

In measuring mode, press **STO** to store the current reading. The Store icon and the ordinal of this record will appear on the display.

Press and hold **RCL** for 3 sec. to enter Recall mode. In this mode, use ▲ or ▼ to browse records. Press and hold **STO** to exit this mode and return to measuring mode.

In Recall mode, press ▲▼ together for 3 sec. to clean all the records in the memory.

## Advanced Setting:

In pH measuring mode, press ▲▼ together for 3 sec. will enter advanced setting.

Press **STO** to set pH calibration type and use ▲▼ to choose “USA” or “NIST”. Then press **MODE** to confirm and return to measuring mode.

Press **LOCK** to turn on or off “Auto Lock” function. Use ▲▼ to choose. Then press **MODE** to confirm and return to measuring mode.

In advanced setting, press **CAL** to reset all settings to factory setting.

# WARRANTY CARD

## Customer Details:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Email Id: \_\_\_\_\_

Contact No: \_\_\_\_\_

## Dealer Details:

Name: \_\_\_\_\_

Stamp & Signature

## Product Details:

Bill No: \_\_\_\_\_ Bill Date: \_\_\_\_\_

Product Serial No: \_\_\_\_\_

Manufactured By



Rakiro Biotech Systems Pvt Ltd

[www.rakiro.net](http://www.rakiro.net)