

## Multi Parameter Handheld Meter pH/Conductivity/TDS/Salt/Temp



## Introduction:

We thank you for having purchased AM-P-AL Multi Parameter Handheld Meter. Before using the instrument, please read the operation instructions carefully, which will help you to operate and maintain the instrument, as well as to avoid trouble caused by unsuitable operation and maintenance. Our Handheld meter employs leading edge technology with integrated microprocessor, which is suitable for measurement in water solutions for institutes, industrial labs and production fields.

Parameter	pH	Conductivity	TDS	Temp
Range	0 - 14 pH	0 to 19999 $\mu\text{S}/\text{cm}$	0 to 19999 PPM	0 to 60 Deg C
Accuracy	$\pm 0.01$	$\pm 2\%$ FS	$\pm 2\%$ FS	$\pm 0.05$
Resolution	0.01 pH	$1\mu\text{S}$	1PPM	0.1
Temp Comp	Yes			
Battery	1.5V (LR44) x 3Nos			
Dimension	183 x 37 x 37 mm			
Weight	90gms			

## Accessories :

Meter with 3-in-1 electrode

Pouch

Instruction manual

LR44 battery x 3 (installed in the meter)

## Display Description:

### PH



→ Measure Readings

→ Temperature

### Conductivity



→ Battery Status

→ Unit

### TDS



→ Unit

→ Parameter

## Functions of Keyboard :



Turn on or off power.



Short Press to change  
Temperature unit.

Long Press for Calibration



To Change Mode between pH/EC/TDS

### **Preparation:**

Remove the protection cap from the electrode.

Rinse the electrode with clean water and wipe it dry.

## Calibration :

### <pH>

Make sure the sensor is 3-in-1 electrode and switch to pH mode.

Dip the electrode into the buffer solution pH 7.00. Stir gently and wait until the reading is stable. Press and hold “**CAL**” for 5 sec. to enter calibration mode. The display will appear **CAL** and flashing 7.00. When the display stops flashing calibration ends, and meter will return to measurement mode.

Rinse the electrode with clean water and wipe it dry. Dip the electrode into the buffer solution pH 4.01 and follow calibration as previous steps.

Rinse the electrode with clean water and wipe it dry. Dip the electrode into the buffer solution pH 10.00 and follow calibration as previous steps.

### **Note:**

Calibration error indicator icon will appear, and “**Err**” if calibration fails.

When doing a 2 or 3-point calibration, calibrate with buffer pH 7 first, and then follow with buffer pH 4 or pH 10.

## <COND/TDS>

Make sure the sensor is 3-in-1 electrode and switch to pH mode.

Dip the electrode into the buffer solution 1413  $\mu\text{S}/\text{cm}$  (706 PPM). Stir gently and wait until the reading is stable. Press and hold “**CAL**” for 5 sec. to enter calibration mode. The display will appear **CAL** and flashing 1413  $\mu\text{S}/\text{cm}$  (706 PPM). When the display stops flashing calibration ends, and meter will return to measurement mode.

### **Note:**

Calibration error indicator icon will appear, and “Err” if calibration fails.

## **Measurement:**

### <pH>

Press “**MODE**” to choose pH mode.

After calibration, rinse the 3-in-1 electrode with clean water and wipe it dry. Dip the electrode into the sample solution which is going to be measured. Stir gently and wait until a stable reading can be obtained.

## <COND, TDS, Salt>

Press “**MODE**” to choose COND, TDS or Salt mode.

After calibration, rinse the 3-in-1 electrode with clean water and wipe it dry. Dip the electrode into the sample solution which is going to be measured. Stir gently and wait until a stable reading can be obtained.

### **Battery Change :**

1. If battery is low, meter will flash low indication.
2. Open the battery case, take out the old battery and replace with new one (3Nos x LR44) cells.
3. Please mind the polarity of the batteries when install them into the meter.

### **Electrode Replacement :**

1. Unscrew the electrode collar and remove it.
2. Remove the electrode module from the meter.
3. Plug the new electrode module in the meter socket carefully.
4. Replace the collar and tighten the electrode to make good seal.



**Multi Parameter  
Handheld Meter  
pH/Conductivity/  
TDS/Salt/Temp**

## Warranty Card\*

\* Warranty For Meter Electronic Module Only

Customer Name/ Address : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dealer Name/ Address: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bill No. \_\_\_\_\_

Date : \_\_\_\_\_



**RAKIRO BIOTECH SYSTEMS PVT LTD**  
Web : [www.rakiro.net](http://www.rakiro.net)