

AQUASOL DIGITAL

Online Meters pH / ORP Meter



An
ISO 9001:2015
Company



www.rakiro.net

Online Meters pH / ORP Meter

Introduction:

Continuous monitoring of PH / ORP is commonly required in a wide variety of industries ranging from water, chemical, pharmaceutical, food processing etc. So, our online range of meters helps to monitor the process PH/ORP/Temperature on continuous basis. These reliable, accurate and robust meters are designed with a compact housing which fits in standard industry panel with 1/16 DIN fitting. Also these meters can be easily calibrated and can display multiple parameters at the same time.

Specifications:

Parameter	pH	ORP	Temperature
Model No	AO-PH-01		
Range	(-)2.00 to 16.00	± 1000 mV	0 to 90 Deg C
Accuracy	±0.01	± 2	±0.2
Resolution	0.01 PH	1 mv	0.1 Deg C
Power	9V DC (2 Pin 230VAC Adapter Provided)		
Dimensions	45mm x 45mm x 110mm, Mounting Details: 1/16 DIN Panel Mount (Cut out Size : 45 x 45 mm)(Depth: 110 mm)		
Meter Weight	75g		

Accessories :

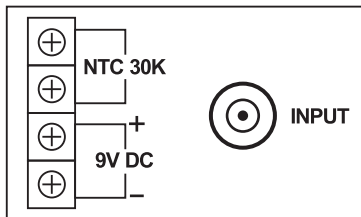
- 1) pH Industrial Electrode, Code: AME-PH-IGT, Qty: 1.Process Connection : 3/4", Temp I/P : 30K Thermister, Material : Glass Sensor with PVC Housing.
Dimensions : 28 x 165 mm, Length: 5M, Temperature Range : Upto 90 DegC
- 2) 9V DC/AC (100~240V) adaptor, Adapter connection wire

Installation:

Mounting

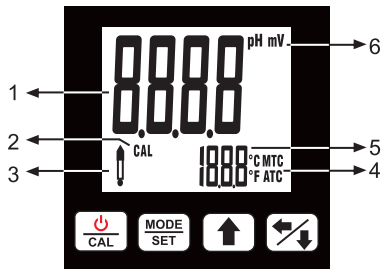
1. Make a 1.77 x 1.77" (45 x 45 mm) panel cutout (1/8" to 3/8" thickness)
2. Slide the controller into the cutout until the bezel is flush with the panel.
3. Slide the mounting bracket over the rear of the controller and press snugly against the rear of the panel.

Rear panel connection



1. pH or ORP reading
2. Calibration mode
3. Calibration error indicator
4. Auto temperature compensation (ATC) or Manual temperature compensation (MTC)

Display and Buttons



5. Temperature reading and unit
6. Unit of pH or ORP reading



1. Turn on/off the controller
2. Enter calibration mode



1. Switch pH and ORP mode
2. Press and hold to enter setting mode
3. In setting mode, press to store each setting




1. In measurement mode, adjust temperature value of MTC



2. In setting mode, adjust each parameter

Calibration:

<pH>

1. Make sure the sensor is pH electrode and switch mode to pH mode.
2. Dip the electrode and the temperature probe into the buffer solution pH 7.00. Stir gently and wait until the reading is stable. Press and hold  for 3 sec. to enter calibration mode. The display will appear **CAL** and flashing 7.00. When the display stops flashing and indicates "**SA**", then "**End**" while calibration ends, and will return to measurement mode.

3. Rinse the electrode and the probe with clean water and wipe it dry. Dip the electrode and the probe into the buffer solution pH 4.01 as previous steps.
4. After slope calibration, pH 4.01 or pH 10.01, 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. A slope of 100% is ideal.

Note:

1. Calibration error indicator icon will appear, and “**Err**” instead of “**SA**”, if calibration fails.
2. When doing a 2 or 3 points calibration, calibrate with buffer pH 7 first, and then follow with buffer pH 4 or pH 10.





pH Calibration type and temperature unit setting

This controller has two pH calibration type : USA and NIST, and the calibration points are following:

“**USA**” : 1.68, 4.01, 7.00, 10.01 and 12.45.

“**NIST**” : 1.68, 4.01, 6.86, 9.18 and 12.45.

To change calibration type and temperature unit :

1. Press and hold  until a beep sound, and then press  again
2. The display will show the current pH calibration type. Press  to change the type, and then press  to store the setting.

3. The display will then show the current temperature unit.





Press to change the type, and then press  to store the setting.

<ORP>

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

Other Settings:

<Back light>






1. Press and hold  until a beep sound, release  press and hold 
2. Press  to choose On, OFF, and Auto :

On: back light is always on.

OFF: back light is always off.

Auto: back light will be on for 30 seconds while any button is pressed and then off.

<Reset the controller to default setting>

1. Press and hold  until a beep sound, release  and then press and hold  again until a beep sound.
2. Press  to switch OFF to On, and then press  to reset the controller to default setting.

Warranty Card*

Customer Name/ Address : _____

Dealer Name/ Address: _____

Bill No. _____

Date : _____

Product details _____

Dealer Stamp
& Sign



RAKIRO BIOTECH SYSTEMS PVT LTD

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