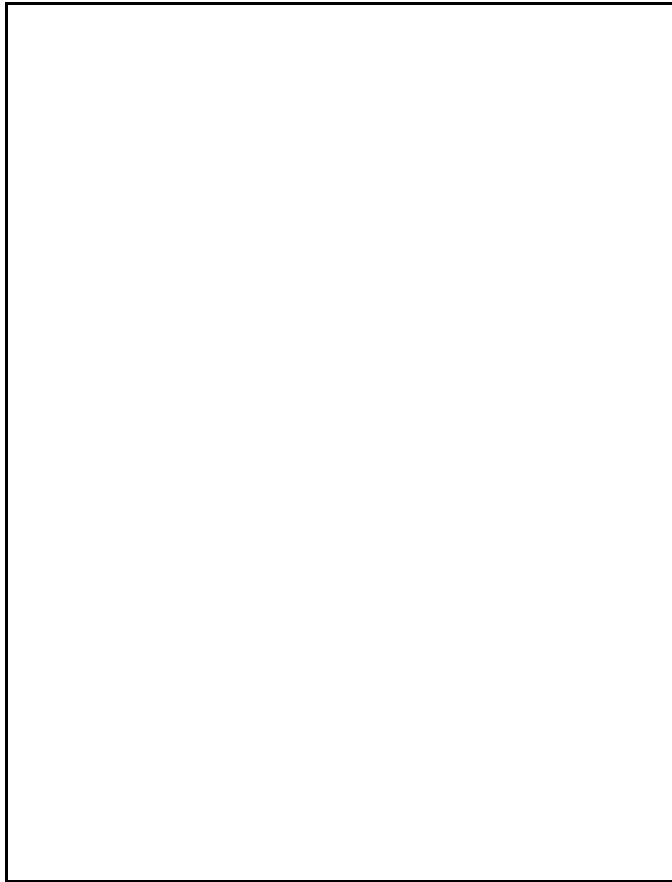


# ORP METER

*Model : YK-23RP*



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## 1. FEATURES

- \* Use for ORP ( Oxidation Reduction Potential ) measurement in plating baths, waste water monitoring and other applications such as Aquarium, Beverage, Fish hatcheries, Food processing, Photography, Laboratory, Quality control, School & Colleges, Swimming Pools....
- \* Large LCD display with high accuracy.
- \* Compact size with the separate electrode.
- \* Wide measuring range, max. range up to 1,999 mV.
- \* Water resistance on the front panel.
- \* All function keys are used the rubber button.

## 2. SPECIFICATIONS

Display	LCD, 21.5 mm ( 0.7" ) digit height.
Measurement Range	ORP ( Oxidation Reduction Potential ) -1,999 mV to +1,999 mV.
Resolution	1 mV.
Accuracy	( 0.8 % + 1 d ) * <i>Main instrument only.</i> * <i>23 5℃, after calibration.</i>
Input Impedance	10 12ohms.
Data Hold	To freeze the measured pH value on the display.

Sampling Time	Approx. 0.4 second.
Operating Temperature	0℃ to 50℃ ( 32℉ to 122℉ )
Operating Humidity	Less than 80% RH.
Power Supply	DC 9V battery. 006P, MN1604 ( PP3 ) or equivalent.
Power Consumption	Approx. DC 1.0 mA.
Dimension	205 x 68 x 30 mm ( 8.1 x 2.7 x 1.2 inch ).
Weight	200 g/0.44 LB.
Electrode Input Socket	BNC
ORP Electrode (Optional)	Any connector pH Electrode with BNC connector.
Standard Accessories	Instruction Manual.....1 PC.
Optional Accessories	ORP electrode ( ORP-04 ), Carrying case ( CA-06, CA-05A )

### 3. FRONT PANEL DESCRIPTION

Fig. 1

- 3-1 Display
- 3-2 Power ON Button
- 3-3 Power OFF Button
- 3-4 Hold Button
- 3-5 BNC Socket for ORP electrode
- 3-6 Calibration VR
- 3-7 Battery compartment/Cover
- 3-8 Stand
- 3-9 ORP Electrode ( optional )
- 3-10 BNC Plug of ORP Electrode ( optional )

## 4. MEASURING PROCEDURE

- 1) Connect the ORP Electrode ( optional ) to the " BNC socket " ( 3-5, Fig. 1 ).
- 2) Power on the instrument by pressing the " Power ON Button " ( 3-2, Fig. 1 ).
- 3) Plug in the " BNC Plug of ORP Electrode ( optional ) " ( 3-10, Fig. 1 ) into the " BNC Socket " ( 3-5, Fig. 1 )
- 4) Place the ORP electrode ( optional ) into the measured solution, the LCD Display ( 3-1, Fig. 1 ) will show the ORP value in " mV " unit.
- 5) During the measurement, pressing the " Hold Button " ( 3-4, Fig. 1 ) will freeze the display value, at the same time the LCD will show the " HOLD " indicator.  
To release the Data Hold function, just pressing the " Hold Button " again, then the " HOLD " indicator will be disappeared and cancel the Data Hold function.
- 6) Power off the instrument by pressing the " Power OFF Button " ( 3-3, Fig. 1 ).

**Remark :**

*a. After make the measurement, please rinse the electrode in distilled water.*

3-6 Calibration VR

*b. The meter build in one " Calibration VR " ( 3-6, Fig. 1 ) on the side case. However, the complete calibration procedure was already done when meter was produced. New calibration procedure is not necessary except it will be executed by the qualify technician people.*

## 5. REPLACEMENT OF BATTERY

- 1) When the left corner of LCD display show " " , it is necessary to replace the battery. However, in-spec measurement may still be made for several hours after " Low Battery Indicator " appears before the instrument become inaccurate.
- 2) To replace the battery, remove the " Battery Cover " ( 3-7, Fig. 1 ) on the rear cabinet.
- 3) Take out the battery, install a new one ( 006P DC 9V ) and reinstall the battery cover again.

## 6. OPTIONAL ORP ELECTRODE, CARRYING CASE

<b>ORP ELECTRODE, Model : ORP-04</b>	
Electrode Structure	Platinum-band electrodes.
Measuring Temp.	0 to 100 蛭 ( 32 to 212 蚌 )
Body Material	Epoxy.
Connector	BNC.
Mechanical Protection	With protection bottle on the electrode head.
Dimensions	Body length - 120 mm. Body Dia. - 9.5 mm. Cable length - 2000 mm.

<b>CARRYING CASE Model : CA-06</b>	
Hard carrying case.	
280 x 195 x 65 mm ( 11.0 x 7.7 x 2.6 inch ).	

<b>CARRYING CASE Model : CA-05A</b>	
Soft carrying case with sash.	
260 x 110 x 55 mm ( 10.2 x 4.3 x 2.2 inch )	