

ORP METER

Instruction Manual

ER-1000

Thank you for purchasing our ORP Meter.
Read this instruction manual carefully before using
to ensure the correct usage of this device.
Keep this instruction manual for future reference.



Note that misuse of this device may lead to injury to the user or damage to the device.
Observe all safety precautions and warnings in this instruction manual.

Customer Service



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Safety Precautions

For safe usage of this device, please observe all statements regarding precautions and warnings in this instruction manual.

ATTENTION

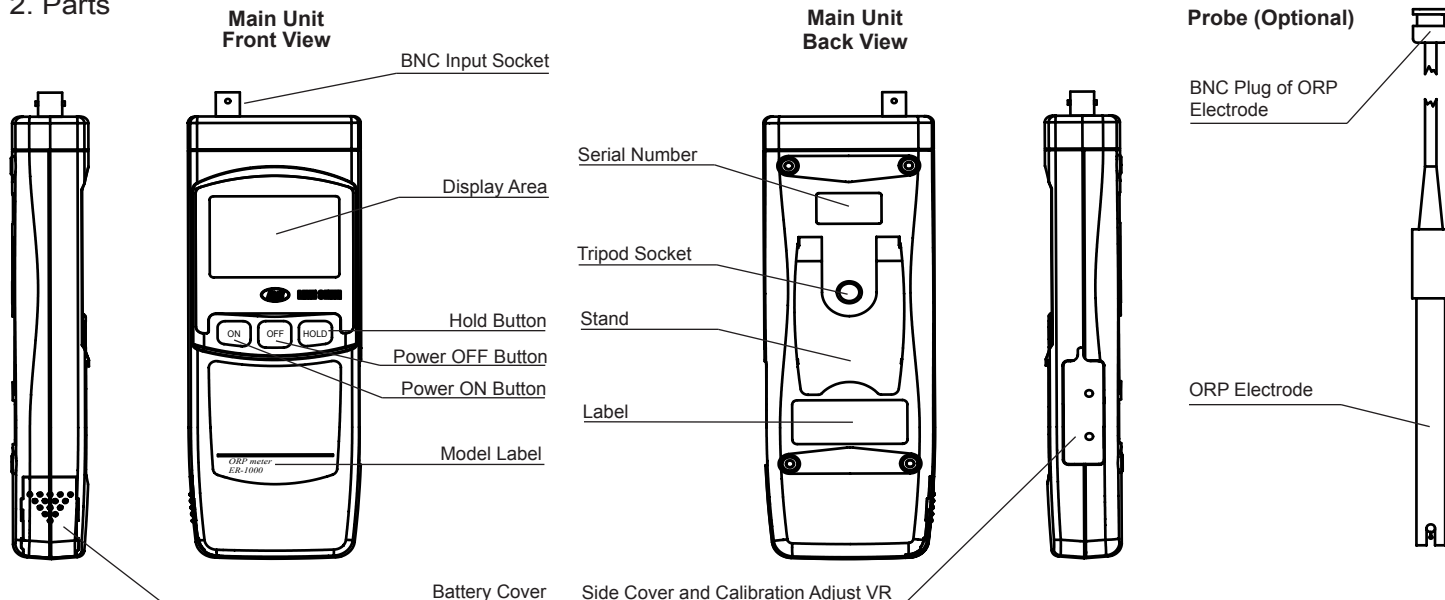
Caution

- Do not use this device near machines that emit strong electromagnetic fields or objects that store static electricity.
- Do not use this device in places where corrosive or explosive gases are present. This may cause damage or explosion of the device.
- Do not use or store this device where it can be exposed to direct sunlight, dust, high temperature and high humidity.
- Do not drop or subject this device to strong impact.
- Do not use or store this device where it will be exposed to water or in places with wet conditions.
- See the battery case markings to ensure that the battery is properly installed.
- Remove the battery when the device will not be used for a long period of time.
- Do not attempt to disassemble or modify this device.

1. General Specifications

● Main Unit	
MODEL	ER-1000
DISPLAY	21.5mm Digit Height, Maximum Display No. 1999
MEASURING RANGE	-1,999 mV - +1,999 mV (ORP)
RESOLUTION	1 mV
ACCURACY	±(0.8% + 1d) * Main instrument only * 23 ± 5°C, after calibration
SAMPLING TIME	Approximately 0.4 Seconds
INPUT IMPEDANCE	10 ¹² ohms
OPERATING TEMP./HUMIDITY	0 - 50°C (32°F - 122°F), 80%RH max.
POWER SUPPLY	LR03 (1.5V) battery x 6 pcs.
DIMENSIONS/WEIGHT	202 (H) x 68 (W) x 30 (D) mm approx. 300g (including batteries)
CONTENTS	Instruction Manual x 1 pc. LR03 (1.5V) battery x 6 pc.

2. Parts



3. Measuring Procedure

- 1.) Connect the probe to the Input socket.
- 2.) Turn on the instrument by pressing the Power On button.
- 3.) Hold the probe handle and immerse the probe into the solution being measured. The display will show the ORP value in mV.
- 4.) Pressing the Hold Button will hold the measured value and a "HOLD" symbol will appear on the display. Pressing the Hold Button again will disable the hold function.
- 5.) Turn off the instrument by pressing the Power Off button.

Note:

1. After using, rinse the electrode with distilled water.
2. The meter may be calibrated by adjusting the Calibration VR. This product is already calibrated and recalibration should be done by a qualified technician.

4. Battery Replacement

- 1.) When the Low Battery indicator appears on the display, it is necessary to replace the battery to maintain accurate readings.
 - 2.) Remove the battery cover as shown below.
 - 3.) Insert six LR03 (1.5V) batteries as shown below.
 - 4.) Attach the battery cover as shown below.
- * The instrument cannot measure accurately after low battery indicator is displayed. Please replace the battery immediately.

