

CONDUCTIVITY METER

Instruction Manual

EC-2000

Thank you for purchasing our Conductivity 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, observe all statements regarding precautions and warnings in this instruction manual.

ATTENTION

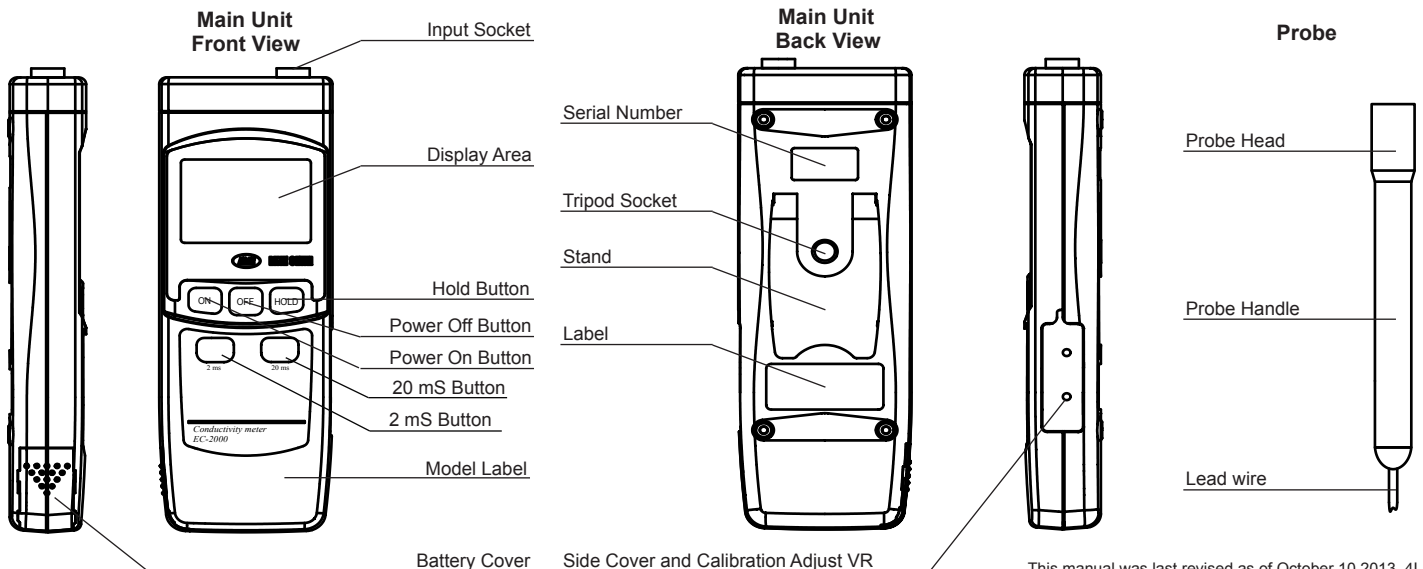
Caution

- 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	EC-2000
DISPLAY	21.5mm Digit Height, Maximum Display No. 1999
MEASURING RANGE	2 Ranges: 0 to 1.999 mS, 1 to 19.99 mS
RESOLUTION	0.001 mSiemens, 0.01 mSiemens
ACCURACY	±(3% + 1d) Full Scale @ 23 ± 5°C
SAMPLING TIME	Approximately 0.4 Seconds
TEMP. COMPENSATION	Automatic, 0 to 50°C (32°F to 122°F)
OPERATING TEMP./HUMIDITY	0 to 50°C (32°F to 122°F), 80%RH max.
POWER	LR03 (1.5V) battery x 6 pcs.
DIMENSIONS/WEIGHT	202 (H) x 68 (W) x 30 (D) mm approx. 360g (including sensor probe and batteries)
CONTENTS	Instruction Manual, LR03 (1.5V) battery x 6 pcs. Sensor Probe x 1 pc.

2. Parts



3. Measuring Procedure

- 1.) Connect the probe to the Input socket.
- 2.) Turn the Power On by pressing the Power On button.
- 3.) Select the appropriate Range between 2 mS and 20 mS.
- 4.) Hold the probe handle and immerse the probe into the solution
- 5.) Shake the probe several times to remove the air bubbles from the probe head until the reading becomes stable. The display will show the conductivity value (mSiemens).
- 6.) The device has a built-in temperature sensor for automatic temperature compensation. If the temperature of the measured solution is changed, it will take a few minutes for the reading to reach stable value.
- 7.) 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

4. Calibration Procedure

To calibrate the instrument, please follow the procedure accordingly.

- 1.) Prepare a 1.413 mS Conductivity Calibration solution.
- 2.) Measure the solution based on the procedure given above.
- 3.) Adjust "Calibration Adjust VR" until the display reaches the same value.

5. 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.

