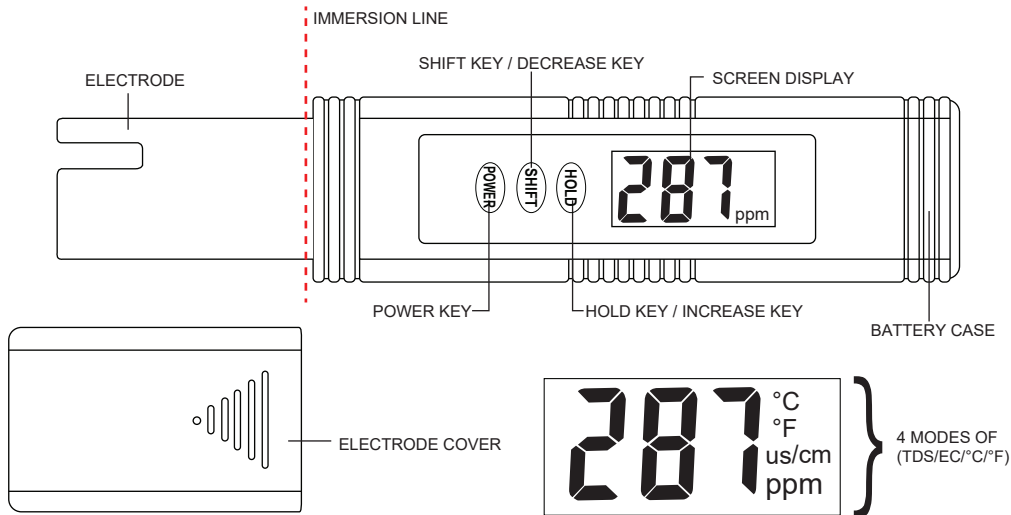


TDS, EC & TEMP METER (User Manual)

Model: ECM-302



INTENDED USE

ECM-302 is a 3-in-1 digital instrument measuring the electrical conductivity (EC), total dissolved solids (TDS) and temperature of water. Designed with features of automatic temperature compensation (ATC). Its wide application therefore includes but not limits to laboratory experiments, aquaculture, aquariums, gardening and swimming pools.

SPECIFICATIONS

Sensor type	154mm*30mm*14mm
Weight	55g (1.94 Oz)
Measurement range	
Electrical Conductivity (EC)	0~9999 us/cm
Total dissolved solids (TDS)	0~9999 ppm
Temperature	0~80°C (32~176 °F)
Accuracy	±2%

SCAN THE QR CODE

to download **USER MANUAL**

in different languages



TUTORIAL VIDEO ON HOW TO USE



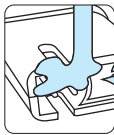
Need more help? **CONTACT US.**

www.cd50.net/302

OPERATION

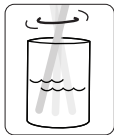
Pre-measurement

1. Remove the protective cap.
2. Turn on the meter by pressing the “Power” key.
3. Rinse the electrode with distilled water and wipe it dry with filter paper.(fig. 1)



During measurement

1. Immerse the meter into the sample, which should not exceed the immersion line.
2. Gently stir the sample to ensure accurate reading. (fig. 2)
3. Press the “SHIFT” button to change the mode of reading. Wait for 30 seconds to stabilize the reading.



*The “SHIFT” button will be disabled when the EC or TDS reading is locked by pressing the “HOLD” button. Unlock the reading to enable the “SHIFT” button

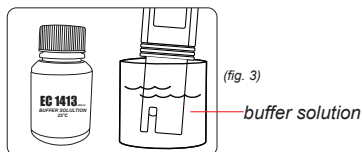
4. Press the “HOLD” button to lock the reading. Take the meter out of the sample to check the result.
5. Rinse the electrode with distilled water before testing the next sample to avoid cross-contamination.

Post-measurement

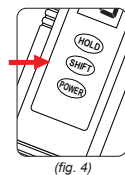
1. Rinse the contaminated electrode with distilled water and wipe it dry with filter paper.
2. Turn off the meter by pressing the “Power” key and cover the electrode with the protective cap.

CALIBRATION

1. Immerse the meter into the solution not exceeding the immersion line. (fig. 3)



3. When the reading is stabilized, long press the “SHIFT” button to enter the calibration mode, during when the reading will flicker. If the reading is above/below the value stated in the buffer solution for more than 2%, press the “HOLD” or “SHIFT” button to adjust the reading. (fig. 4)



4. When the reading matches the solution value, long press the “SHIFT” button to finish the calibration. The reading will stop flickering. Leave it ready for measurement.

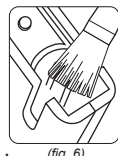
MAINTENANCE

- Always cover the electrode with the protective cap after use to prevent exposure to air.
- Immerse the electrode into distilled water for a few hours once it has been dried out.
- Crystallization is a natural phenomenon. Soak the electrode into distilled water to wash out the crystalline solids before using.

- The electrode should not be rubbed against any hard substances to ensure accurate measurement. (fig. 5)



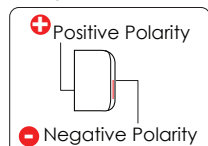
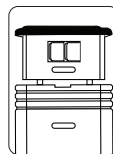
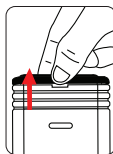
- Clean the electrode with soft brush and proper detergent if it is contaminated. (fig. 6)



- Avoid direct heat from sunlight and contact with water above the immersion line.

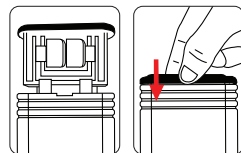
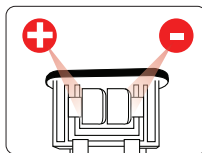
- Take out the batteries when the meter will not be in use for a long period.

- Replace the meter with new batteries if the digits cannot be clearly displayed.



Back view

Side view of a button cell



Front view