



EC-2013 conductivity meter manual

FOREWORD

This document includes all the information intended for the authority responsible for the use of the EC-2013 conductivity meter.

The EC-2013 is a pen-type conductivity meter device solely dedicated only to professional use.

This manual is designed to be a reference for easy operation and general maintenance of the water purifiers sold by DiaSys. The manual contains detailed descriptions of the features and specifications.

The assumption is made that before making an attempt to operate the analyzer, the operator is familiar with the operation of the analyzer and has read the Operator’s Manual of the water purifier sold by DiaSys.

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A. Safety

The EC2013 is designed to operate safely. When the operator operates the EC2013 in a safe environment, in accordance with the guidelines and procedures stipulated in this manual, there are no known operating hazards.

The operator is requested to read this instruction before using the conductivity meter for the first time in order to become acquainted with the way to operate.

The environmental work conditions requirements must strictly be respected.

The EC-2013 is in conformity with the requirements of the IEC 61326-2-6:2005 standard.

B. Specifications

Range	: 0.00~1999us/cm	Temperature Compensation	: 0°C~50°C
Resolution	: 1us/cm	Operating Temperature	: 0°C~50°C
Accuracy	: ±2%F.S	Dimensions	:151mm×33mm×20mm
Battery	: 4×1.5V(AG-13)	Weight	: 53g

C. Operation

1. Remove the protective cap
2. Clean the electrode with distilled water, and suck it with filter paper.
3. Turn the meter on by "ON-OFF" switch located on the top of battery case.
4. Immerse the meter electrode in solution up to the immersion level. Under no circumstances immerse above display level.
5. Stir gently and wait for the reading to stabilize.
6. After use, Switch off it, Use the distilled water clean the electrode and replace the protective cap.

D. Calibration

1. Immerse the meter in the distilled water. Activate it about some hours.
2. Immerse the meter in 1413us/cm calibration solution (at 25°C) , and stir it gently.
3. Allow the reading to stabilize and with a small screwdriver turn the calibration trimmer until the display show "1413"
4. Rinse the electrode with distilled water and suck it with tissue paper.
5. Immerse the meter in 152us/cm (at 25°C) and stir it gently. Display value is the same as the value calibration solution (at 25°C) or approaching the value in the area of resolution.

E. Troubleshooting

1. Stir gently the meter when operating. Don't let some bleb on the electrode.
2. In case of abnormal phenomena such as high measured deviation, blinking measured value, no zero resetting, etc, please immerse the electrode in alcohol for cleaning.
3. If the meter can not be switched or the display fades, please check the voltage of power supply (replace the batteries when the voltage is lower then 4.5V),
4. To replace all the batteries: Pull out the battery case and replace the batteries paying attention to the polarity