

## Manual de Instrucciones

# EC 214 - EC 215

## Conductivimetro profesional de laboratorio



Entiendo que:

la seguridad que lea el código en pantalla RoRo.

Por favor, lee cuidadosamente este manual antes de utilizar el instrumento. Le proporcionará toda la información necesaria para el correcto uso del mismo. Si necesita información técnica adicional, no dude en contactar con nosotros a través de nuestro e-mail, [art@hannainst.com](mailto:art@hannainst.com).

Este instrumento cumple con la normativa **CE EN 50601-1** y **EN 50602-1**.

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### INSPECCION PRELIMINAR

Extraiga el instrumento de su embalaje original y asegúrese de que no presenta ningún daño debido al transporte. De ser así, consérvelo inmediatamente a su suministrador.

El equipo se suministra con:

- Sonda de conductividad (H06300 para EC 214, H06303 para EC 215)
- Manual de instrucciones;
- Adaptador 12VDC (H0710005 o H0710006);
- Guía rápida.

**Nota:** asegure el embalaje hasta que esté completamente seguro de que el instrumento funciona correctamente. Cualquier artículo debido debe ser devuelto en su embalaje original con los accesorios suministrados.

### DESCRIPCION GENERAL

EC 214 y EC 215 son conductivímetros profesionales de sobremesa multiusos, diseñados para su uso portátil a la hora de realizar medidas de conductividad en líquidos.

Los 4 rangos de conductividad cubren todo tipo de aplicaciones, desde agua desionizada hasta salinas.

La calibración se realiza de modo sencillo e inmediato incorporando en el modo incorporado en la parte frontal del instrumento.

Las mediciones no precisan la calibración para cualquier rango de medición o otro.

Todas las mediciones en cualquier rango se realizan con la sonda potenciométrica de 4 cables de platino suministrada. Esta sonda es más fácil de limpiar y resistente a la corrosión y temperatura. También sirve para medir líquidos en muestras de pequeño tamaño y se suministra con un cable de 1 m.

El efecto de la temperatura puede ser compensado gracias al modo incorporado en el panel frontal del EC 214.

Con el EC 215, la compensación de la temperatura en los líquidos es automática gracias a la sonda incorporada de 4 cables. El coeficiente de temperatura se regula de 0 a 2.5% gracias al modo incorporado en el panel frontal.

**HANNA**  
instruments

**CE**  
Este instrumento cumple con los requisitos de la CE

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# Lab Manual Ec215

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Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don t write experiments A student s scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition s experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment s Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section      *Lab Manual for Electronic Devices, Global Edition* THOMAS L. FLOYD,2018-06-19 This laboratory manual is carefully coordinated to the text Electronic Devices Tenth edition Global edition by Thomas L Floyd The seventeen experiments correspond to the chapters in the text except the first experiment references Chapters 1 and the first part of Chapter 2 All of the experiments are subdivided into two or three Parts With one exception Experiment 12 B the Parts for the all experiments are completely independent of each other The

instructor can assign any or all Parts of these experiments and in any order This format provides flexibility depending on the schedule laboratory time available and course objectives In addition experiments 12 through 16 provide two options for experiments These five experiments are divided into two major sections identified as A or B The A experiments continue with the format of previous experiments they are constructed with discrete components on standard protoboards as used in most electronic teaching laboratories The A experiments can be assigned in programs where traditional devices are emphasized Each B experiment has a similar format to the corresponding A experiment but uses a programmable Analog Signal Processor ASP that is controlled by free Computer Aided Design CAD software from the Anadigm company [www.anadigm.com](http://www.anadigm.com) These experiments support the Programmable Analog Design feature in the textbook The B experiments are also subdivided into independent Parts but Experiment 12 B Part 1 is a software tutorial and should be performed before any other B experiments This is an excellent way to introduce the ASP technology because no other hardware is required other than a computer running the downloaded software In addition to Experiment 12 B the first 13 steps of Experiment 15 B Part 2 are also tutorial in nature for the AnadigmFilter program This is an amazing active filter design tool that is easy to learn and is included with the AnadigmDesigner2 AD2 CAD software The ASP is part of a Programmable Analog Module PAM circuit board from the Servenger company [www.servenger.com](http://www.servenger.com) that interfaces to a personal computer The PAM is controlled by the AD2 CAD software from the Anadigm company website Except for Experiment 12 B Part 1 it is assumed that the PAM is connected to the PC and AnadigmDesigner2 is running Experiment 16 B Part 3 also requires a spreadsheet program such as Microsoft Excel The PAM is described in detail in the Quick Start Guide Appendix B Instructors may choose to mix A and B experiments with no loss in continuity depending on course objectives and time We recommend that Experiment 12 B Part 1 be assigned if you want students to have an introduction to the ASP without requiring a hardware purchase A text feature is the Device Application DA at the end of most chapters All of the DAs have a related laboratory exercise using a similar circuit that is sometimes simplified to make laboratory time as efficient as possible The same text icon identifies the related DA exercise in the lab manual One issue is the trend of industry to smaller surface mount devices which are very difficult to work with and are not practical for most lab work For example almost all varactors are supplied as surface mount devices now In reviewing each experiment we have found components that can illustrate the device function with a traditional one The traditional through hole MV2109 varactor is listed as obsolete but will be available for the foreseeable future from Electronix Express [www.elexp.com](http://www.elexp.com) so it is called out in Experiment 3 All components are available from Electronix Express [www.elexp.com](http://www.elexp.com) as a kit of parts see list in Appendix A The format for each experiment has not changed from the last edition and is as follows Introduction A brief discussion about the experiment and comments about each of the independent Parts that follow Reading Reading assignment in the Floyd text related to the experiment Key Objectives A statement specific to each Part of the experiment of what the student should be able to do Components Needed A list components and small items required for

each Part but not including the equipment found at a typical lab station Particular care has been exercised to select materials that are readily available and reusable keeping cost at a minimum Parts There are two or three independent parts to each experiment Needed tables graphs and figures are positioned close to the first referenced location to avoid confusion Step numbering starts fresh with each Part but figures and tables are numbered sequentially for the entire experiment to avoid multiple figures with the same number Conclusion At the end of each Part space is provided for a written conclusion Questions Each Part includes several questions that require the student to draw upon the laboratory work and check his or her understanding of the concepts Troubleshooting questions are frequently presented Multisim Simulation At the end of each A experiment except 1 one or more circuits are simulated in a Multisim computer simulation New Multisim troubleshooting problems have been added to this edition Multisim troubleshooting files are identified with the suffix f1 f2 etc in the file name standing for fault1 fault2 etc Other files with nf as the suffix include demonstrations or practice using instruments such as the Bode Plotter and the Spectrum Analyzer A special icon is shown with all figures that are related to the Multisim simulation Multisim files are found on the website [www.pearsonglobaledition.com](http://www.pearsonglobaledition.com) Floyd Microsoft PowerPoint slides are available at no cost to instructors for all experiments The slides reinforce the experiments with troubleshooting questions and a related problem and are available on the instructor s resource site Each laboratory station should contain a dual variable regulated power supply a function generator a multimeter and a dual channel oscilloscope A list of all required materials is given in Appendix A along with information on acquiring the PAM As mentioned components are also available as a kit from Electronix Express the kit number is 32DBEDFL10

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**Chemistry** Jo Allan Beran,1999-11-17 This flexible lab manual appropriate for use with a wide range of general chemistry books offers a wealth of practical chemistry experiments It includes pertinent information on rules and safety in the lab Preparation of the new edition was guided by specific feedback from users

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#### **Cu in Lab General**

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