

# EC 214 - EC 215

## Conductivimetro profesional de laboratorio



Enteado de:

la legislación que haya escogido en países firmes.

Por favor, leer cuidadosamente este manual antes de utilizar el instrumento. Le proporcionamos 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@hanna.com](mailto:art@hanna.com).

Este instrumento cumple con la normativa CE EN 50601-1 y EN 50601-2.

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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, consúltelo inmediatamente a su suministrador.

El equipo se suministra con:

- Soled de conductividad (H09300 para EC 214, H09300 para EC 215)
- Manual de Instrucciones;
- Aléxido 120C (H010005 o H010006);
- Guía poles.

**Nota:** examine el embalaje hecho que está 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 columna múltiple, diseñados para ser un sencillo a la hora de realizar medidas de conductividad en líquidos.

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

La calibración se realiza de modo sencillo e inmediato incorporado 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 celda potenciométrica de 4 soleds de platos suministrada. Esta celda 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 celda incorporada de 4 soleds. El coeficiente de temperatura se ajusta de 0 a 2.5% gracias al modo incorporado en el panel frontal.

# Lab Manual Ec215

**University Of U. C. Davis Lab manual**

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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     Lab Manual for Physical Science Bill W. Tillery,2016-02-09

The laboratory manual written and classroom tested by the author presents a selection of laboratory exercises specifically written for the interests and abilities of nonscience majors There are laboratory exercises that require measurement data analysis and thinking in a more structured learning environment while alternative exercises that are open ended Invitations to Inquiry are provided for instructors who would like a less structured approach When the laboratory manual is used with Physical Science students will have an opportunity to master basic scientific principles and concepts learn new problem solving and thinking skills and understand the nature of scientific inquiry from the perspective of hands on experiences The laboratory manual is customizable via McGraw Hill Create The instructor s edition of the laboratory manual can be found under the Instructor Resources on the Physical Science Online Learning Center     **Lab Manual to Accompany Physical Science** Bill W. Tillery,Tillery Bill,2006-03     **Laboratory Manual of Physical Chemistry** Albert Watson Davison,Henry Sjoerd van Klooster,Walter H. Bauer,1956

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