

Introduction to the Agilent 34401A Digital Multimeter

Introduction

The Agilent 34401A is a *digital multimeter*, or DMM, which means that it displays measurements in a digital form rather than a needle moving across a dial. It's called a multimeter because it can make a variety of measurements and replace a collection of different single-function meters. The measurements that will be most important are voltage, current, and resistance. The voltage and current measurements can be for either a.c. or d.c. signals.

Using the 34401A

1. The first step in using the DMM is to select the desired measurement function. This is done by pressing the appropriate function select button, as shown in Figure 1. Note that the current measurements are printed in



Figure 1: Agilent 34401A Digital Multimeter

blue above the button that performs the similar voltage measurement. To measure current instead of voltage you must first press the blue Shift button, then press the button under the desired function. Note that the units shown on the right side of the display will change to indicate the selected function.

2. The test leads must be connected to the front panel jacks that correspond to the selected function. When measuring current you must use the bottom two jacks on the right side, and for everything else use the top two jacks on the right side. If your meter has a small board with a fuse plugged into the bottom red jack then plug your red test lead into the jack on that board instead of the red jack on the DMM when making current measurements. The remaining two jacks (the ones on the left, marked HI and LO are for a special method of making precise resistance measurements).
3. It's always a good idea to match the color of the test lead to the color of the jack. Mixing up the red and black leads is a good way to blow a circuit breaker... not that I know anyone who has done that.
4. The test leads must also be connected to your circuit differently for different kinds of measurements, as shown in Figure 2. Suppose you want to measure the voltage across some part of a circuit (indicated in the figure

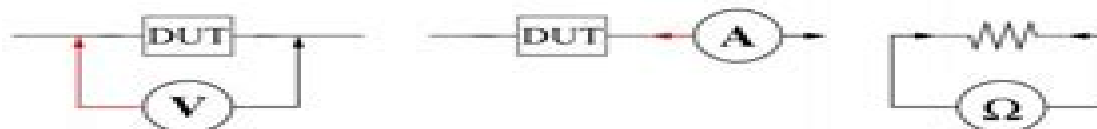


Figure 2: Proper Connections for Measuring Voltage, Current, and Resistance

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Shasha Hu



Agilent 34401a Digital Multimeter User Manual:

The Integration and System-wide Implementation of Agilent's VEE Pro Graphical Programming Software with the Cornell Broadband Communications Research Laboratory's (CBCRL) Radio Frequency Integrated Chip (RFIC) Test Equipment

Christopher Quansah Benyarko, Raymond Ashley Sharp, 2003 *Hands-On Introduction to LabVIEW for Scientists and Engineers* John Essick, 2013 Introduction to LabView programming for scientists and engineers Provided by publisher

Measurement, Instrumentation, and Sensors Handbook, Second Edition John G. Webster, Halit Eren, 2014-02-03

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based instruments including a DC voltmeter digital oscilloscope DC voltage source waveform generator blinking LED array digital thermometer and spectrum analyzer Each chapter concludes with a Do It Yourself project and a Use It example as well as a healthy selection of homework style problems allowing readers to test their understanding and further develop their Python based experimentation skills *Signal* ,2003 *Commerce Business Daily* ,2001-08 **Encyclopedia Of Thermal Packaging - Set 1: Thermal Packaging Techniques (A 6-volume Set)** ,2012-09-25 remove This Encyclopedia comes in 3 sets To check out Set 2 and Set 3 please visit Set 2 Thermal Packaging Tools and Set 3 Thermal Packaging Applications remove Thermal and mechanical packaging the enabling technologies for the physical implementation of electronic systems are responsible for much of the progress in miniaturization reliability and functional density achieved by electronic microelectronic and nanoelectronic products during the past 50 years The inherent inefficiency of electronic devices and their sensitivity to heat have placed thermal packaging on the critical path of nearly every product development effort in traditional as well as emerging electronic product categories Successful thermal packaging is the key differentiator in electronic products as diverse as supercomputers and cell phones and continues to be of pivotal importance in the refinement of traditional products and in the development of products for new applications The Encyclopedia of Thermal Packaging compiled in multi volume sets Set 1 Thermal Packaging Techniques Set 2 Thermal Packaging Tools Set 3 Thermal Packaging Applications and Set 4 Thermal Packaging Configurations will provide a comprehensive one stop treatment of the techniques tools applications and configurations of electronic thermal packaging Each of the author written sets presents the accumulated wisdom and shared perspectives of a few luminaries in the thermal management of electronics Set 1 Thermal Packaging TechniquesThe first set of the Encyclopedia Thermal Packaging Techniques focuses on the technology building blocks used to assemble a complete thermal management system and provide detailed descriptions of the underlying phenomena modeling equations and correlations as well as guidance for achieving the optimal designs of individual building blocks and their insertion in the overall thermal solution Specific volumes deal with microchannel coolers cold plates immersion cooling modules thermoelectric microcoolers and cooling devices for solid state lighting systems as well as techniques and procedures for the experimental characterization of thermal management components These building blocks are the essential elements in the creation of a complete cost effective thermal management system The four sets in the Encyclopedia of Thermal Packaging will provide the novice and student with a complete reference for a quick ascent on the thermal packaging learning curve the practitioner with a validated set of techniques and tools to face every challenge and researchers with a clear definition of the state of the art and emerging needs to guide their future efforts This encyclopedia will thus be of great interest to packaging engineers electronic product development engineers and product managers as well as to researchers in thermal management of electronic and photonic components and systems and most beneficial to undergraduate and graduate students studying mechanical electrical and electronic engineering *NASA Tech Briefs* ,2001

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Coverage and examples are drawn from modern polymers Topics include high performance polymers and computer science integration in biochemical green polymers molecular nanotechnology and industrial chemistry **Engineering of**

Polymers and Chemical Complexity LinShu Liu, Antonio Ballada, 2014-05-14 This book provides a broad overview of current studies in the engineering of polymers and chemicals of various origins The innovative chapters cover the growth of educational scientific and industrial research activities among chemists biologists and polymer and chemical engineers This book publishes significant research and reviews reporting new methodologies and important applications in the fields of industrial chemistry industrial polymers and biotechnology as well the latest coverage of chemical databases and the development of new computational methods and efficient algorithms for chemical software and polymer engineering

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