

MULTIMETER cheat sheet



MIN/MAX

This feature has Max, Min, and Average, when activated the meter will store and display the selected setting for the duration the feature is activated.

HOLD

When activated, this will freeze the display, holding the values for later reference if needed.

Amps A

Amps, a unit of electric current in the International System. This feature is used to test the amount of amps being drawn, the 2 most common methods are in series, and clamp reading. To use this feature, you have to switch the red wire to the fused input.

Volts V

Volt is the unit of electric potential, there is 2 types of currents, AC represented by \sim And DC represented by \rightarrow . This can be used to diagnose batteries, devices, voltage usage, find live wires, and determine voltage.

Temp °C/°F

Meters with the temperature option will have a separate probe that must be connected into the input and common of the meter, this probe can measure surface and ambient temperature, this probe in most cases is not suitable for measuring liquid.

No contact voltage NCV

This feature alerts to the presence of voltage, this could be an extra safety precaution when working with wires to ensure they are not live, when voltage is detected, the meter will beep, and flash a warning light.

Metric prefix

- M** Million (1,000,000)
- K** Kilo (1,000)
- m** Milli (1/1000)
- μ** Micro (1/1,000,000)
- n** Nano (1/1,000,000,000)

HOLD

MIN/MAX

RANGE

°C/°F

OFF

V

A

Ω

Hz

hFE

NCV

10A

mA

COM

Common

This port will usually be connected to the black wire, the common port is the grounding or neutral port for both the general input and Amps.

Input

This is the general input, generally used for most features except for testing amperage.

Fused

Amperage must usually be tested on a separate input that is fused, as it runs high current through the device, the fuses will prevent the device from damage.

Ofentimes, you'll have multiple features in the same option, to switch between features, you'll have an unlabeled selector button.

RANGE

If you own an auto-ranging meter, you'll have the option to manually select the range with this option.

Ohm's Ω

Ohms are a measurement of resistance, this is used to test resistors, find resistor values, ensure low resistance when needed, and regulate accordingly.

Continuity \rightarrow

This feature will make an audible tone when continuity is found, continuity is when there is a closed loop with low enough resistance, this is a simple but surprisingly useful feature for troubleshooting issues in damaged wiring.

Hertz / Frequency Hz

Hz is the speed at which an electrical generator spins, or events per second, so a generator is at a frequency of $\frac{1}{s}$ per second. Many meters also have the option DUTY, this feature tells you what percentage of the time the frequency is positive.

Diode \rightarrow

This is an electronic component that conducts current primarily in one direction, with high resistance in the other direction, this feature can be used to ensure diodes are functioning, including LED's.

Capacitance \rightarrow

Capacitors are devices that store electrical potential for later use, these devices are measured in Farad's, you can use this feature to ensure a capacitor is still in functioning order and within range.

Transistor hFE

A more specialized feature, this is used to check the current gain on transistors to ensure they are functioning per the data sheet, to test transistors you'll have to know the type, and which lead is the base, emitter, and collector.

Multimeter Guide Updates

S Ben Porath



Multimeter Guide Updates:

Black & Decker The Complete Guide to Wiring, Updated 7th Edition Editors of Cool Springs Press, 2017-12-26
BLACK DECKER's latest edition of the best selling home improvement book in North America for more than a decade is completely updated to conform to 2017-2020 national electrical codes. For more than ten years, BLACK DECKER The Complete Guide to Wiring has been the best selling home wiring manual in North America. Now with more than two million copies in print, this is the home reference book more DIYers choose than any other for many reasons. As the most current wiring book on the market, you can be confident that your projects will meet national wiring codes. You'll also spend more time on your project and less time scratching your head thanks to more than 800 clear color photos and over 40 diagrams that show you exactly what you need to know about home electrical service: all the most common circuits, all the most needed techniques, all the most essential tools and materials. The information in this book has been created and reviewed by professional electricians under the watchful eye of the experts at BLACK DECKER. You can find plenty of articles and videos about wiring online or in other publications, but only The Complete Guide to Wiring has passed the rigorous test to make it part of The Best DIY Series from the Brand You Trust.

Black & Decker The Complete Guide to Wiring, Updated 9th Edition Editors of Cool Springs Press, 2025-06-24
For over 15 years, BLACK DECKER The Complete Guide to Wiring has been the best selling home wiring manual in North America. With this updated 9th edition, get the clearest, most up-to-date advice available. As the most current wiring book on the market, you can be confident that your projects will meet national wiring codes. You'll also spend more time on your project and less time scratching your head thanks to more than 750 clear color photos and over 50 diagrams that show you exactly what you need to know about home electrical service: all the most common circuits, all the most needed techniques, all the most essential tools and materials. Chapters include Working Safely with Wiring, Wire, Cable, Conduit, Boxes, Panels, Switches (including wall switches and specialty switches), Receptacles, Preliminary Work, planning your project, highlights of the National Electrical Code and more. Circuit Maps, Common Wiring Projects, whole house surge arrestors, underfloor radiant heat systems, doorbells, backup power supply and many more. Repair Projects, light fixtures, ceiling fans, lamp sockets, plugs and cords and more. The information in this book has been created and reviewed by professional electricians under the watchful eye of the experts at BLACK DECKER. You can find plenty of articles and videos about wiring online or in other publications, but only The Complete Guide to Wiring has passed the rigorous test to make it part of the best DIY series from the brand you trust.

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Lab Manual for A+ Guide to Hardware Andrews,2003 This Lab Manual is designed to accompany the A Guide to Hardware Second Edition and provides additional hands on practice need to succeed in industry This Lab Manual is also an excellent resource to use to prepare for CompTIA s 2003 A Core Hardware certification exam

Illustrated Guide to Basic Electronics John P. Steiner,1984 *Mike Meyers' A+ Guide to Managing and Troubleshooting PCs Lab Manual* Michael Meyers,Lloyd Jeffries,2003-12 Features 40 labs that challenge readers to solve problems by applying the concepts taught

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The Publishers' Trade List Annual ,2000 *Electronic Design* ,1969 *Marine Engineering/log* ,1986 *A Guide to the Evaluation of Educational Experiences in the Armed Services* , **Electronics** ,1951 June issues 1941 44 and Nov issue 1945 include a buyers guide section

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