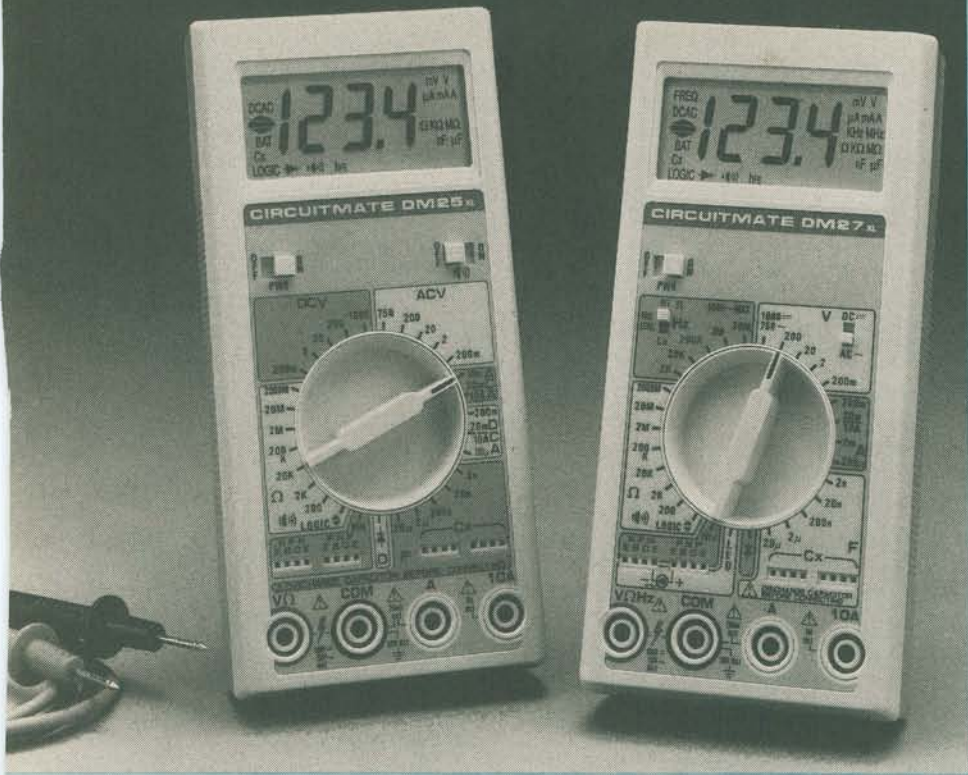


A Buyer's Guide to DMM's



Picking a digital multimeter that fits your needs from the literally hundreds available can be a formidable task. This buyer's guide makes that task a little easier.

Wether you're a beginning electronics hobbyist, a veteran tinkerer, or an engineer, technician, or other electronics professional, when it's time to take an electronic measurement, the first thing most of us reach for is our trusty digital multimeter (DMM). That's not surprising considering how familiar, useful, and relatively inexpensive DMM's are.

In case you haven't looked lately, modern units are a far cry from the meters of just a few years ago. For one thing, today's DMM's truly are *multi* meters, featuring such things as built-in frequency counters, logic probes, capacitor testers, digital thermometers, and more. What's more, many meters offer features such as peak hold, data hold, memory, and more that make them easier to use and more versatile.

In the pages that follow, we present a Buyer's Guide to DMM's. In it, we list most of the DMM's currently on the market,

their capabilities, their features, and their prices. But before we get into that, let's look at what a basic DMM's function is, and what special features are available that can make a DMM more versatile, more accurate, and/or easier to use.

Volts, AMPS, and OHMS. A DMM's primary function is to measure voltage, current, and resistance and to display the results of that measurement directly on a display, usually an LCD. With some exceptions, all DMM's measure resistance and AC and DC voltage and current. One of those exceptions is low-priced meters, which may delete the AC functions and/or the current functions. Another exception is a probe or pen-type meter; most of those tiny meters, which are used for troubleshooting in tight quarters, only measure voltage and resistance.

When comparing between meters, be sure to take into account the number of ranges as well as the maximum measurement and the display type. For similar 3½-digit DMM's, a meter that breaks up its measurement capability into more ranges generally offers higher resolution for certain measurements.

You'll also notice that some, typically expensive meters are "true rms (root-mean-square) reading." A bit of explanation is in order: AC waveforms are typically thought of as sinusoidal, how-

ever other waveforms such as ramps, triangular waves, etc., are possible and, in fact, are common. Most meters are average sensing or responding; such meters can analyze and give an accurate rms measurement of sinusoidal AC waveforms, but cannot do that with other types. True-rms reading meters, on the other hand, can analyze and accurately measure and display the rms value of all types of AC waveforms.

DMM Features. As with just about anything else, with meters as you move up in price, you move up in features and performance. An expensive, professional-quality meter's primary selling point is extremely high precision. Perhaps even more important, however, is that those meters are built to stand up to the more rugged industrial environment. Many are drop resistant and are sealed to keep out water and other contaminants. Also, many of the high-end meters offer features, or feature implementations, that cannot be found on lower priced units.

However, once you go beyond the bare-bones lowest priced models, even modestly priced meters quickly begin to add functions, features, and all sorts of "bells and whistles." Some meters are virtually handheld test benches, incorporating capacitance meters, frequency counters, logic probes, and more. All of that can make a DMM more useful or versatile, but

keep in mind that a meter packed to the teeth with buttons and switches can be confusing to use, at least until you get to know it.

As you look through the guide, you'll see lots of features whose purposes are self explanatory. However, if you are unfamiliar with DMM's, the purpose of some of those features may need some explanation. Let's discuss those now.

Data hold is a feature found on almost all pen- or probe-type DMM's, and on many other meters. When that feature is activated, the meter holds the results of a measurement on the display until it's either updated, cleared, or a preset period of time has elapsed. This feature is useful for measurement in tight quarters, and can be a life saver when working in high-voltage circuits where precise probe placement is critical for safety. Manufacturers implement this feature differently—some do it automatically, others require the push of a button—and some have different names for it such as Touch Hold and Probe Hold (not to be confused with a *probe holder*, which is simply a clip that holds one of the probes and allows you turn a standard DMM into a probe-type meter).

A *Relative* mode is used to measure the difference between two readings. It is useful for such things as sorting resistors, checking tolerances, etc. It is also used to zero out probe leads.

In the *Min/Max* mode, a meter keeps track of the minimum and maximum measurements at a specific point over

a period of time. This is useful for troubleshooting some transient or intermittent problems. Some meters notify the operator to new min/max readings with an audible alert. Similarly, a *peak hold* function keeps track only of the highest value measured, updating the display each time a new high value is detected.

With most meters, the user selects the measurement range by a rotary or pushbutton switch. On *Autoranging* meters, the meter analyzes the input and selects the appropriate range. Of course, the measurement function must still be manually selected. Most autoranging meters provide the user with a method of overriding the autorange selection or a way to manually select the range.

If you are forever draining batteries because you forget to turn things off, you may want a meter that features *auto power off*. Such meters turn off power automatically after a preset period of inactivity.

When digital multimeters were first introduced they met with some resistance (no pun intended). One of the chief complaints about them was that they could not be used for peaking and nulling adjustments. Some multimeters now overcome that limitation by including an *analog bargraph* display. The bargraph, located either above or below the digital display, shows trends and changes in much the same way as an analog pointer.

Normally, in performing resistance

measurements the meter uses a voltage that is high enough to bias a semiconductor junction. That makes the meter unsuitable for in-circuit resistance tests. However, some meters offer a *low power resistance* mode. In that mode, a lower voltage, one that is too low to bias a junction, is used; that allows the meter to make in-circuit resistance measurements.

Finally, some meters offer a *conductance* function. Used for making high-resistances measurement, it is useful when testing for leakage, and in other applications.

Using This Guide. It is impossible to summarize what makes a meter special or unique in just a few words. Indeed, many of the meters mentioned in the following pages deserve a page or two of their own. However, space makes that obviously impossible.

Instead, you should use this guide as a starting point, narrowing down your selection to a few meters that meet your features/price criteria. The next step is to get hold of the manufacturers literature on those units; to make that easier, we've included a manufacturers and exclusive distributors directory elsewhere in this article. Finally, pay a call to your local retailer and personally inspect and handle the meters you are interested in. Doing that will help ensure that you will select the digital multimeter that's the most perfect match to you and your needs.

And now, let's look at the meters!

UNDER \$50

COMPANY: Kelvin Electronics
MODEL: 100
DESCRIPTION: Low-cost meter that's ideal for hobbyist use.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 500 volts, 2 ranges
CURRENT RANGE: 10 amps, 4 ranges DC only
RESISTANCE RANGE: 2 megohms, 5 ranges
SPECIAL FEATURES: Diode test, battery test
DIMENSIONS/WEIGHT: N.A.
PRICE: \$19.95

COMPANY: Alfa Electronics
MODEL: 308
DESCRIPTION: Pocket-sized meter with a large display.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 500

volts, 2 ranges
CURRENT RANGE: 10 amps, 4 ranges DC only
RESISTANCE RANGE: 2 megohms, 5 ranges
SPECIAL FEATURES: Diode test, battery test
DIMENSIONS/WEIGHT: 5 × 2.8 × 1.3 inches/N.A.
PRICE: \$24.95

COMPANY: Radio Shack
MODEL: Micronta 22-171
DESCRIPTION: An autoranging, pocket-sized DMM with carrying case.
DIGITS: 3½
DC VOLTAGE RANGE: 200 mV-400 volts
AC VOLTAGE RANGE: 2-400 volts
CURRENT RANGE: N.A.
RESISTANCE RANGE: 2-2000k ohms
SPECIAL FEATURES: Audible continuity test, diode test, carrying case
DIMENSIONS/WEIGHT: 4.25 ×

2.13 × 0.31 inches/N.A.
PRICE: \$24.95



COMPANY: Radio Shack
MODEL: Micronta 22-169
DESCRIPTION: A pocket-sized autoranging DMM with pushbutton operation.

DIGITS: 3½
DC VOLTAGE RANGE: 400 volts, 5 ranges
AC VOLTAGE RANGE: 400 volts, 5 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 2 megohms, 5 ranges
SPECIAL FEATURES: audible continuity test, auto/manual ranging, hard-cover case
DIMENSIONS/WEIGHT: 4¼ × 2¾ × ¾ inches/2.8 ounces
PRICE: \$27.95

COMPANY: Beckman Industrial
MODEL: DM78
DESCRIPTION: This credit-card sized meter is easy to carry in a shirt pocket for measurements at any moment. It comes with a vinyl carrying case and attached test probes.
DIGITS: 3½
DC VOLTAGE RANGE: 450 volts, 5 ranges
AC VOLTAGE RANGE: 250 volts, 4 ranges

CURRENT RANGE: N.A.
RESISTANCE RANGE: 20 megohms, 4 ranges
SPECIAL FEATURES: Continuity test, diode test
DIMENSIONS/WEIGHT: 108 × 54 × 11 mm/99 grams
PRICE: \$29.95

COMPANY: Kelvin Electronics
MODEL: 150
DESCRIPTION: Low-cost meter that's ideal for hobbyist use. An upgrade of the 100, this meter adds an audible continuity test and a transistor gain test.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 10 amps, 4 ranges DC only
RESISTANCE RANGE: 200 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, battery test, transistor gain test
DIMENSIONS/WEIGHT: N.A.
PRICE: \$29.95

COMPANY: Fordham Radio
MODEL: Scope DVM-630
DESCRIPTION: A small general-purpose DMM for hobbyists, students, etc.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 2 amps, 5 ranges DC only
RESISTANCE RANGE: 2 megohms, 5 ranges
SPECIAL FEATURES: Diode test, battery test
DIMENSIONS/WEIGHT: 5 × 2.6 × 0.9 inches/N.A.
PRICE: \$32.50

COMPANY: Triplett Corporation
MODEL: 2030
DESCRIPTION: A pocket-calculator sized, autoranging DMM.
DIGITS: 3½
DC VOLTAGE RANGE: 2000 mV, 3 ranges
AC VOLTAGE RANGE: 2000 mV, 3 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 2000k ohms, 4 ranges
SPECIAL FEATURES: Auto/manual ranging, audible continuity test, built-in probes, hard-cover carrying case
DIMENSIONS/WEIGHT: 2.2 × 4.25 × 0.39 inches/80 grams
PRICE: \$33.00

COMPANY: A.W. Sperry Instruments, Inc.
MODEL: DM-4100A
DESCRIPTION: A full-featured multimeter that's rugged enough for professional use, yet inexpensive and simple to use, making it ideal for the hobbyist.
DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 200-500 volts, 2 ranges
CURRENT RANGE: 10 amps, 4 ranges DC only
RESISTANCE RANGE: 2 megohms, 5 ranges
SPECIAL FEATURES: Diode test, battery test,
DIMENSIONS/WEIGHT: 5.0 × 2.8 × 1.4 inches/7 ounces
PRICE: \$34.95

COMPANY: Philips ECG
MODEL: DM-26
DESCRIPTION: A basic full-function, general-purpose DMM.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 10 A, 4 ranges DC only
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, low-power resistance function
DIMENSIONS/WEIGHT: 5 × 2.8 × 1.3 inches/7 ounces
PRICE: \$34.95

COMPANY: A.W. Sperry Instruments, Inc.
MODEL: DM-1A
DESCRIPTION: An economy-priced, pocket-calculator sized DMM loaded with advanced features.



DIGITS: 3½
DC VOLTAGE RANGE: 500 volts, 5 ranges
AC VOLTAGE RANGE: 500 volts, 4 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Autoranging, data hold, diode test, audible continuity test, data hold, auto polarity, built-in test probes, carrying case
DIMENSIONS/WEIGHT: 4.4 × 2 × 0.4 inches/3.5 ounces

PRICE: \$36.95
COMPANY: Radio Shack
MODEL: Micronta 22-188
DESCRIPTION: A hobbyist-priced, autoranging DMM.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 200 mA, 1 range DC only
RESISTANCE RANGE: 2000k ohms, 5 ranges
SPECIAL FEATURES: diode test
DIMENSIONS/WEIGHT: 5 × 3 × 1.25 inches/5.5 ounces
PRICE: \$36.95

COMPANY: Mercer Electronics
MODEL: 9345
DESCRIPTION: An autoranging, shirt-pocket sized DMM.
DIGITS: 3½
DC VOLTAGE RANGE: 500 volts, 5 ranges
AC VOLTAGE RANGE: 500 volts, 4 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, autoranging, hard-cover case
DIMENSIONS/WEIGHT: 4.25 × 2.13 × .31 inches/2.1 ounces
PRICE: \$38.80

COMPANY: American Reliance, Inc.
MODEL: AR-140/AR-140K
DESCRIPTION: A low-cost DMM made with the student/hobbyist in mind. Also available in kit form as the AR-140K.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 10 amps, 6 ranges DC only
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test
DIMENSIONS/WEIGHT: 5.9 × 3.2 × 1.2 inches/7.1 ounces
PRICE: AR-140: \$39.95; AR-140K: \$49.95

COMPANY: Component Specialties, Inc.
MODEL: Emco DMR-26
DESCRIPTION: An economy-priced meter designed for the hobbyist or student.
DIGITS: 3½
DC VOLTAGE RANGE: 200 volts, 2 ranges
AC VOLTAGE RANGE: 500 volts, 1 range
CURRENT RANGE: 10 amps, 1 range DC only
RESISTANCE RANGE: 2000k ohms, 2 ranges
SPECIAL FEATURES: diode test, drop proof

DIMENSIONS/WEIGHT: 5¼ × 2¾ × 1¼ inches/N.A.
PRICE: \$39.95

COMPANY: Jameco Electronics
MODEL: Metex M3800
DESCRIPTION: A full-featured DMM at a hobbyist price.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 700 volts, 5 ranges
CURRENT RANGE: 20 amps, 7 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, carrying case
DIMENSIONS/WEIGHT: 6.75 × 3.5 × 1.25 inches/1.4 pounds
PRICE: \$39.95

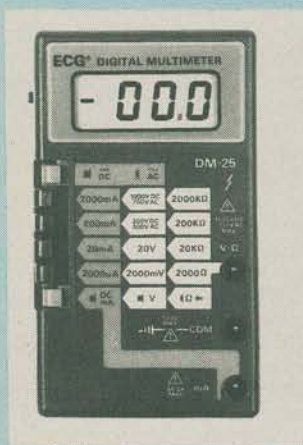
COMPANY: Kelvin Electronics
MODEL: 200
DESCRIPTION: This low-priced, full featured meter is an upgrade of the 150; it adds an AC amps function and a capacitance test.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 200 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, capacitor test (20 μF, 5 ranges), transistor-gain test
DIMENSIONS/WEIGHT: N.A.
PRICE: \$39.95

COMPANY: Philips ECG
MODEL: DM-27
DESCRIPTION: A basic full-function, general-purpose DMM. An upgrade of the DM-26, this meter adds an audible continuity test.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 10 A, 4 ranges DC only
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, low-power resistance function, audible continuity test
DIMENSIONS/WEIGHT: 5 × 2.8 × 1.3 inches/7 ounces
PRICE: \$39.95

COMPANY: Radio Shack
MODEL: Micronta 22-165
DESCRIPTION: An autoranging pen-type meter.
DIGITS: 3½
DC VOLTAGE RANGE: 200 mV-400 volts
AC VOLTAGE RANGE: 2-400 volts
CURRENT RANGE: N.A.
RESISTANCE RANGE: 2-

2000k ohms
SPECIAL FEATURES: audible continuity test, data hold, auto power off
DIMENSIONS/WEIGHT: 6.36 × 1.15 × 0.89 inches/2 ounces
PRICE: \$39.95

COMPANY: Philips ECG
MODEL: DM-25
DESCRIPTION: A lightweight, pocket-sized, pushbutton-type meter.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 2000 mA, 4 ranges DC only



RESISTANCE RANGE: 2000k ohms, 4 ranges
SPECIAL FEATURES: carrying case
DIMENSIONS/WEIGHT: 5 × 3 × 1½ inches/6.88 ounces
PRICE: \$41.95

COMPANY: B&K Precision
MODEL: 2703
DESCRIPTION: A general purpose DMM in a compact case.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 10 amps, 4 ranges DC only
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test
DIMENSIONS/WEIGHT: 5 × 2¾ × 1½ inches/9 ounces
PRICE: \$44.00

COMPANY: Amprobe Instrument
MODEL: AM-12
DESCRIPTION: A general purpose DMM with all essential functions.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges

CURRENT RANGE: 10 amps, 4 ranges AC/5 ranges DC
RESISTANCE RANGE: 2000k ohms, 5 ranges
SPECIAL FEATURES: N.A.
DIMENSIONS/WEIGHT: 5½ × 3 × 1 inches/5 ounces
PRICE: \$44.85

COMPANY: Alfa Electronics
MODEL: 5325
DESCRIPTION: This pocket-sized meter has a capacitance function.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, capacitance test (20 µF, 5 ranges), transistor gain test
DIMENSIONS/WEIGHT: 5 × 2.8 × 1.3 inches/N.A.
PRICE: \$44.95

COMPANY: Beckman Industrial
MODEL: DM10
DESCRIPTION: A no-frills unit that provides digital convenience at an analog-meter price.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 500 volts, 2 ranges
CURRENT RANGE: 200 mA, 4 ranges DC only
RESISTANCE RANGE: 2 megohms, 5 ranges
SPECIAL FEATURES: Diode test
DIMENSIONS/WEIGHT: 24 × 70 × 120 cm/175 grams
PRICE: \$44.95

COMPANY: Elenco Electronics, Inc.
MODEL: M-2600
DESCRIPTION: An economy priced meter that offers a diode test function in addition to the standard DMM functions.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 10 amps, 5 ranges DC only
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test
DIMENSIONS/WEIGHT: N.A.
PRICE: \$44.95

COMPANY: Triplett Corporation
MODEL: 2200
DESCRIPTION: A general purpose DMM with a transistor test function.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 2 amps, 5 ranges DC only
RESISTANCE RANGE: 2 megohms, 5 ranges
SPECIAL FEATURES: Diode test, transistor gain test
DIMENSIONS/WEIGHT: 126 × 70 × 24 mm/125 grams
PRICE: \$45.00

COMPANY: Component Specialties, Inc
MODEL: Emco DMR-30T
DESCRIPTION: An economy-priced meter with a transistor test and a high-visibility yellow case.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 500 volts, 2 ranges
CURRENT RANGE: 10 amps, 4 ranges DC only
RESISTANCE RANGE: 2 megohms, 5 ranges
SPECIAL FEATURES: diode test, transistor gain test
DIMENSIONS/WEIGHT: 5¼ × 2¾ × 1½ inches/N.A.
PRICE: \$45.50

COMPANY: Extech Instruments
MODEL: 381625
DESCRIPTION: Pen-type autoranging DMM with built in CMOS/TTL logic probe.
DIGITS: 3½
DC VOLTAGE RANGE: 500 volts, 5 ranges



AC VOLTAGE RANGE: 500 volts, 4 ranges
CURRENT RANGE: 200 mA, 1 range AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: CMOS/TTL logic probe, data hold, diode test, audible continuity test, autoranging
DIMENSIONS/WEIGHT: 7.3 × 0.9 × 1.2 inches/2.4 ounces
PRICE: \$49.00

COMPANY: Beckman Industrial
MODEL: DM71
DESCRIPTION: This pen-type autoranging multimeter is designed for easy one-hand operation in tight quarters.
DIGITS: 3½
DC VOLTAGE RANGE: 450 volts, 5 ranges
AC VOLTAGE RANGE: 250 volts, 4 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Autoranging, data hold, diode test, continuity test
DIMENSIONS/WEIGHT: 165 × 28 × 19 mm/75 grams
PRICE: \$49.95

COMPANY: Philips ECG
MODEL: DM-51
DESCRIPTION: This general purpose DMM features transistor gain and battery test functions.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 10 A, 5 ranges DC only
RESISTANCE RANGE: 200 megohms, 7 ranges
SPECIAL FEATURES: Diode test, low-power resistance function, audible continuity test, battery test, transistor gain test, carrying case
DIMENSIONS/WEIGHT: 5 × 2.8 × 1.3 inches/7 ounces
PRICE: \$49.95

\$50-\$100

COMPANY: Mercer Electronics
MODEL: 9370
DESCRIPTION: A pocket-sized DMM with full function and range capability.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 2 ranges
CURRENT RANGE: 2 amps, 5 ranges DC only
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test
DIMENSIONS/WEIGHT: 4.96 × 2.76 × .94 inches/6 ounces
PRICE: \$52.50

COMPANY: Triplett Corporation
MODEL: 3525-B
DESCRIPTION: An autoranging pen-type DMM for measurements in tight quarters.
DIGITS: 3½
DC VOLTAGE RANGE: 500 volts, 5 ranges
AC VOLTAGE RANGE: 500 volts, 4 ranges
CURRENT RANGE: N.A.



RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Audible continuity test, data hold, autoranging, carrying case
DIMENSIONS/WEIGHT: 1½ × ¾ × 6¾ inches/4 ounces
PRICE: \$55.00

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-6593A

DESCRIPTION: A probe-style multimeter that's ideal for use in hard-to-reach areas.

DIGITS: 3½

DC VOLTAGE RANGE: 500 volts, 5 ranges

AC VOLTAGE RANGE: 500 volts, 4 ranges

CURRENT RANGE: N.A.

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: auto-ranging, interchangeable probe tips, audible continuity test, data hold, carrying case

DIMENSIONS/WEIGHT: 6.3 × 1.2 × 0.8 inches/2.29 ounces

PRICE: \$59.95

COMPANY: American Reliance, Inc.

MODEL: AR-120

DESCRIPTION: A low-cost basic DMM with 0.5% basic DC accuracy and plenty of features.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Audible continuity test, diode test

DIMENSIONS/WEIGHT: 5.9 × 3.2 × 1.2 inches/7.1 ounces

PRICE: \$59.95

COMPANY: American Reliance, Inc.

MODEL: AR-100/AR-102

DESCRIPTION: Pen-type auto-ranging multimeter with built-in logic probe.

DIGITS: 3½

DC VOLTAGE RANGE: 500 volts, 5 ranges

AC VOLTAGE RANGE: 500 volts, 4 ranges

CURRENT RANGE: N.A.

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Auto-ranging, diode test, interchangeable probe tips, built in TTL/CMOS logic probe (AR-100: 10 MHz; AR-102 40 MHz), data hold

DIMENSIONS/WEIGHT: 7.4 × 1.2 × 0.8 inches/2.4 ounces

PRICE: AR-100: \$59.95; AR-102: \$69.95

COMPANY: Beckman Industrial

MODEL: DM15B

DESCRIPTION: An upgrade of the DM10, this meter adds an AC-current function and an audible continuity test.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 2 amps DC/AC, 5 ranges

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test

DIMENSIONS/WEIGHT: 24 × 70 × 120 cm/175 grams

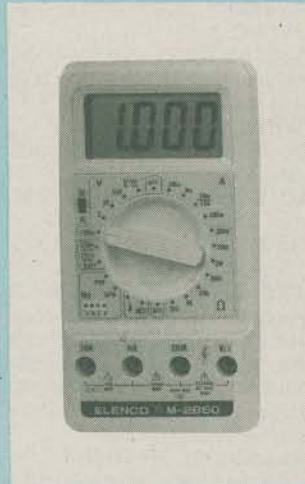
PRICE: \$59.95

COMPANY: Elenco Electronics, Inc.

MODEL: M-2650

DESCRIPTION: This economy priced meter is an upgrade of the M-2600; it offers transistor test and battery test functions and expanded measurement functions and ranges.

DIGITS: 3½



DC VOLTAGE RANGE: 1000 volts, 4 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 200 megohms, 7 ranges

SPECIAL FEATURES: Diode test, transistor gain test, battery test function, audible continuity test

DIMENSIONS/WEIGHT: N.A.

PRICE: \$59.95

COMPANY: Fordham Radio

MODEL: Scope DVM-636

DESCRIPTION: A general-purpose, pushbutton-operated DMM that includes capacitance and transistor functions.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges high-power/5 ranges low-power

SPECIAL FEATURES: Diode test, transistor gain test, capacitance function (20 µF, 5 ranges), low-power resistance function

DIMENSIONS/WEIGHT: N.A.

PRICE: \$59.95

COMPANY: Global Specialties

MODEL: 735

DESCRIPTION: This full-featured, autoranging DMM includes a low-power resistance function and a memory mode.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 10 amps, 2 ranges AC/DC

RESISTANCE RANGE: 2 megohms, 5 ranges high power/4 ranges low power

SPECIAL FEATURES: Diode test, audible continuity test, auto/manual ranging, memory mode, data hold, low-power ohms function

DIMENSIONS/WEIGHT: N.A.

PRICE: \$59.95

COMPANY: Heath Company

MODEL: 2311

DESCRIPTION: A general-purpose DMM with capacitance and transistor test functions.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, capacitance test (20µF, 5 ranges)

DIMENSIONS/WEIGHT: N.A.

PRICE: \$59.95

COMPANY: Jameco Electronics

MODEL: Metex M3610

DESCRIPTION: A full-featured DMM with a large, 0.7-inch display.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 20 amps, 6 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, carrying case

DIMENSIONS/WEIGHT: 7 × 3.5 × 1.5 inches/1.7 pounds

PRICE: \$59.95

COMPANY: Philips ECG

MODEL: DM-74

DESCRIPTION: A general purpose, autoranging DMM.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 10 A, 2 ranges AC/DC

RESISTANCE RANGE: 2 megohms, 5 ranges high power, 4 ranges low power

SPECIAL FEATURES: Auto/manual ranging, extended ranges (in manual mode), low-power resistance function, memory/null (nulls out lead resistance), audible continuity test

DIMENSIONS/WEIGHT: 6 × 3 × 1.4 inches/8.1 ounces

PRICE: \$59.95

COMPANY: Radio Shack

MODEL: Micronta 22-184

DESCRIPTION: An autoranging DMM.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 10 amps, 2 ranges AC/DC

RESISTANCE RANGE: 2000k ohms, 4 ranges

SPECIAL FEATURES: Diode test, audible continuity test, auto/manual ranging

DIMENSIONS/WEIGHT: 6½ × 3¼ × 1¼ inches/7.97 ounces

PRICE: \$59.95

COMPANY: Radio Shack

MODEL: Micronta 22-185

DESCRIPTION: A 3½-digit meter for field or bench use.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

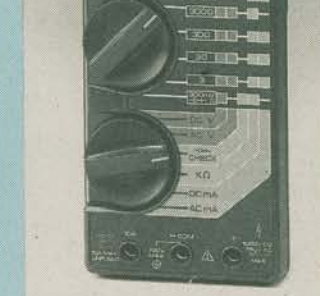
CURRENT RANGE: 10 amps, 5 ranges

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, capacitance test (20µF, 5 ranges)

DIMENSIONS/WEIGHT: 7 × 3.5 × 1.5 inches/1.7 pounds

PRICE: \$59.95



DC VOLTAGE RANGE: 1000 volts, 4 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges AC/DC

RESISTANCE RANGE: 30 megohms, 6 ranges

SPECIAL FEATURES: diode test, audible continuity test

DIMENSIONS/WEIGHT: 6¾ × 3¼ × 1¼ inches/11.6 ounces

PRICE: \$59.95

COMPANY: John Fluke Mfg. Co., Inc.

MODEL: 70

DESCRIPTION: Fluke's lowest priced model offers features such

as an analog bargraph display and auto/manual ranging.

DIGITS: 4 (3200 count)
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 32 megohms, 6 ranges
SPECIAL FEATURES: Auto/manual ranging, diode test, audible continuity test, "Touch Hold", auto power off, analog bargraph display
DIMENSIONS/WEIGHT: 6.55 × 2.95 × 1.12 inches/12 ounces
PRICE: \$60.00

COMPANY: Component Specialties, Inc
MODEL: Emco DMR-35
DESCRIPTION: An economy-priced general-purpose meter.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 500 volts, 2 ranges
CURRENT RANGE: 10 amps, 5 ranges DC only
RESISTANCE RANGE: 10 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, carrying case
DIMENSIONS/WEIGHT: 6¾ × 3¾ × 1½ inches/N.A.
PRICE: \$62.95

COMPANY: B&K Precision
MODEL: 2802B
DESCRIPTION: An autoranging pen-type DMM.
DIGITS: 3½
DC VOLTAGE RANGE: 500 volts, 5 ranges
AC VOLTAGE RANGE: 500 volts, 4 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, data hold, autoranging
DIMENSIONS/WEIGHT: 7 × 1¼ × ¾ inches/2.32 ounces
PRICE: \$64.00

COMPANY: Amprobe Instrument
MODEL: AM-14
DESCRIPTION: A general purpose DMM that includes a temperature function.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, temperature function (-40 to +148.8°C/-40 to +300°F)
DIMENSIONS/WEIGHT: 6 × 3¼ × ¾ inches/9.5 ounces

PRICE: \$64.85

COMPANY: A.W. Sperry Instruments, Inc.
MODEL: DM-4200A
DESCRIPTION: A full-featured multimeter that's rugged enough for professional use, yet inexpensive and simple to use, making it ideal for the hobbyist. An upgrade of the DM-4100A, this meter adds extended ranges, an AC current test function, an audible continuity test, and a transistor test.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 200 megohms, 7 ranges
SPECIAL FEATURES: Diode test, battery test, audible continuity test, transistor test
DIMENSIONS/WEIGHT: 5.0 × 2.8 × 1.4 inches/7 ounces
PRICE: \$64.95

COMPANY: B&K Precision
MODEL: 2704
DESCRIPTION: A general purpose DMM in a compact case. This upgrade of the 2703 adds AC amps, capacitance, and transistor gain functions.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, capacitance function (20 µF, 5 ranges), transistor gain test
DIMENSIONS/WEIGHT: 5 × 2½ × 1¾ inches/9 ounces
PRICE: \$65.00

COMPANY: Elenco Electronics, Inc.
MODEL: M-2690
DESCRIPTION: An easy-to-use autoranging meter.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 20 amps, 2 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Autoranging, diode test, audible continuity test
DIMENSIONS/WEIGHT: N.A.
PRICE: \$55.00

COMPANY: Mercer Electronics
MODEL: 9370
DESCRIPTION: A full-functioned, autoranging DMM with memory and a low-power resis-

tance mode.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 10 amps, 2 ranges AC/DC
RESISTANCE RANGE: 2000k ohms, 4 ranges low power/5 ranges high-power
SPECIAL FEATURES: Diode test, audible and visual continuity test, memory mode, auto/manual ranging, low-power resistance mode
DIMENSIONS/WEIGHT: 5.9 × 2.95 × 1.34 inches/8.1 ounces
PRICE: \$66.15

COMPANY: B&K Precision
MODEL: 2701
DESCRIPTION: An autoranging meter with probe holder and data hold function.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 200 mA, 2 ranges AC/DC
RESISTANCE RANGE: 2 megohms, 5 ranges
SPECIAL FEATURES: Diode test, audible continuity test, data hold, auto/manual ranging, probe holder, low-power ohms function, carrying case
DIMENSIONS/WEIGHT: 6.9 × 2.3 × 1 inches/9 ounces
PRICE: \$69.00

COMPANY: Brunelle Instruments, Inc.
MODEL: 4080
DESCRIPTION: An autoranging DMM with memory, low-power resistance, and audible and visible continuity functions.



DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 10 amps, 3 ranges AC/DC
RESISTANCE RANGE: 2000k ohms, 5 ranges
SPECIAL FEATURES: Diode test, auto/manual ranging, audi-

ble and visible continuity test, memory mode, low-power resistance function, data hold
DIMENSIONS/WEIGHT: 6 × 3 × 1.34 inches/8.1 ounces
PRICE: \$69.00

COMPANY: Alfa Electronics
MODEL: 5365
DESCRIPTION: This pocket-sized meter has a capacitance function, a frequency counter, and a logic probe.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 200 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, capacitance test (20 µF, 5 ranges), frequency counter (1 Hz-200 kHz), 20-MHz logic probe, transistor gain test
DIMENSIONS/WEIGHT: 5 × 2.8 × 1.3 inches/N.A.
PRICE: \$69.95

COMPANY: Beckman Industrial
MODEL: DM73
DESCRIPTION: This pen type autoranging multimeter is designed for easy one-hand operation in tight quarters. An upgrade



of the DM71, it offers higher precision for more demanding applications.
DIGITS: 3½
DC VOLTAGE RANGE: 500 volts, 5 ranges
AC VOLTAGE RANGE: 250 volts, 4 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 2 megohms, 4 ranges
SPECIAL FEATURES: Autoranging, data hold, continuity test
DIMENSIONS/WEIGHT: 133 × 29 × 17 mm/70 grams
PRICE: \$69.95

COMPANY: Fordham Radio
MODEL: Scope DVM-638
DESCRIPTION: This upgrade of the DVM-636 adds audible and visible continuity tests, a logic probe, and a conductance function.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 4

ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges high-power/5 ranges low-power

SPECIAL FEATURES: Diode test, transistor gain test, capacitance function (20 μ F, 5 ranges), low-power resistance function, logic probe, 20-nS conductance range, audible and visible continuity test

DIMENSIONS/WEIGHT: N.A.
PRICE: \$69.95

COMPANY: Kelvin Electronics
MODEL: 400

DESCRIPTION: This feature-packed meter includes a frequency counter and a logic probe.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 200 megohms, 7 ranges

SPECIAL FEATURES: Diode test, audible continuity test, capacitor test (20 μ F, 5 ranges), transistor gain test, frequency counter (20 MHz, 6 ranges), logic probe, LED test

DIMENSIONS/WEIGHT: N.A.
PRICE: \$69.95

COMPANY: Philips ECG
MODEL: DM-51

DESCRIPTION: An upgrade of the DM-51, this general purpose DMM features a capacitance test function.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 A, 5 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, low-power resistance function, audible continuity test, transistor gain test, capacitance test (20 μ F, 5 ranges), carrying case

DIMENSIONS/WEIGHT: 5 x 2.8 x 1.3 inches/7 ounces
PRICE: \$69.95

COMPANY: Radio Shack
MODEL: Micronta 22-167

DESCRIPTION: A full-featured, 3 $\frac{3}{4}$ -digit, auto/manual ranging DMM with a bargraph display.

DIGITS: 3 $\frac{3}{4}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 30 megohms, 6 ranges

SPECIAL FEATURES: diode test, audible continuity test, auto/manual ranging, analog bargraph display, data hold, auto

power off, protective holster
DIMENSIONS/WEIGHT: 6 $\frac{1}{2}$ x 3 $\frac{1}{16}$ x 1 $\frac{3}{8}$ inches/20 ounces
PRICE: \$69.95

COMPANY: Radio Shack
MODEL: Micronta 22-186

DESCRIPTION: A full-featured, 3 $\frac{3}{4}$ -digit, auto/manual ranging DMM with a bargraph display.

DIGITS: 3 $\frac{3}{4}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 10 amps, 2 ranges AC/DC

RESISTANCE RANGE: 30 megohms, 5 ranges

SPECIAL FEATURES: diode test, audible continuity test, auto/manual ranging, analog bargraph display, data hold

DIMENSIONS/WEIGHT: 6 $\frac{1}{16}$ x 3 $\frac{1}{8}$ x 1 $\frac{3}{8}$ inches/13 ounces
PRICE: \$69.95

COMPANY: Brunelle Instruments, Inc.

MODEL: 4060

DESCRIPTION: Pushbutton-operated, 7-function, 35-range DMM.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 6 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, transistor gain test, low-power ohms function,
DIMENSIONS/WEIGHT: 180 x 86 x 42 mm/315 grams
PRICE: \$73.00

COMPANY: Philips ECG
MODEL: DM-300

DESCRIPTION: A professional quality, general purpose DMM.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 20 A, 6 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, low-power resistance functions

DIMENSIONS/WEIGHT: 6.8 x 3.5 x 1.7 inches/12 ounces
PRICE: \$73.50

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-6510

DESCRIPTION: This autoranging (voltage and resistance ranges only) DMM offers many features normally found only in more expensive units. Noteworthy is an expanded resolution feature that extends the measurement capability of each man-

ual range by 50%.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 10 amps, 2 ranges AC/DC

RESISTANCE RANGE: 2 megohms, 5 ranges (4 ranges low-power mode)

SPECIAL FEATURES: audible continuity test, auto/manual ranging, extended resolution feature, low-power resistance mode, memory function

DIMENSIONS/WEIGHT: 5.9 x 3 x 1.3 inches/8.1 ounces

PRICE: \$74.95

COMPANY: Jameco Electronics
MODEL: Metex M3650

DESCRIPTION: This upgrade of the M3610 adds frequency and capacitance functions.

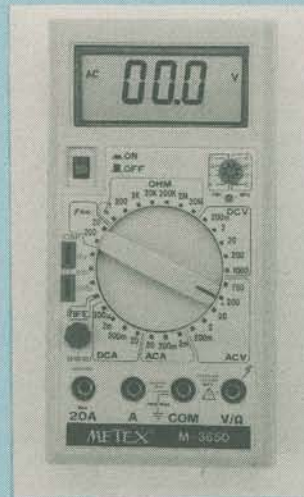
DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 20 amps, 4 ranges DC/3 ranges AC

RESISTANCE RANGE: 20 megohms, 6 ranges



SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, capacitance function (20 μ F, 3 ranges), frequency counter (200 kHz, 2 ranges), carrying case
DIMENSIONS/WEIGHT: 7 x 3.5 x 1.5 inches/1.7 pounds
PRICE: \$74.95

COMPANY: Philips ECG
MODEL: DM-78

DESCRIPTION: A heavy-duty, water-resistant meter suitable for industrial applications.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 20 A, 5 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges high power, 5 ranges low power

SPECIAL FEATURES: Auto/manual ranging, extended ranges (in manual mode), low-power resistance function, memory function, probe holder, audible continuity test, diode test, data hold, analog bargraph display

DIMENSIONS/WEIGHT: 6.9 x 3.3 x 1.2 inches/12 ounces
PRICE: \$74.95

COMPANY: Philips ECG
MODEL: DM-76

DESCRIPTION: This upgrade of the DM-74 adds data hold and a transistor gain test.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 10 A, 2 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges high power, 5 ranges low power

SPECIAL FEATURES: Auto/manual ranging, extended ranges (in manual mode), low-power resistance function, memory/null (nulls out lead resistance), audible continuity test, diode test, transistor gain test, data hold

DIMENSIONS/WEIGHT: 6 x 3 x 1.4 inches/8.1 ounces
PRICE: \$74.95

COMPANY: Elenco Electronics, Inc.

MODEL: M-2660

DESCRIPTION: A full-featured meter that also offers a capacitor test function.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 4 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, transistor gain test, capacitance test (20 μ F, 5 ranges), audible continuity test
DIMENSIONS/WEIGHT: N.A.
PRICE: \$75.00

COMPANY: Mercer Electronics
MODEL: 9301

DESCRIPTION: A general-purpose DMM with all of the basic measurement functions.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test
DIMENSIONS/WEIGHT: 6.69 × 3.43 × 1.65 inches/12.1 ounces
PRICE: \$77.70

COMPANY: B&K Precision
MODEL: 2905
DESCRIPTION: A general purpose DMM.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 4 ranges DC/3 ranges AC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, capacitance test function (20 µF, 5 ranges), transistor gain test, drop-resistant case (to 4 ft.)
DIMENSIONS/WEIGHT: 7.5 × 3.6 × 1.4 inches/13 ounces
PRICE: \$79.00

COMPANY: Extech Instruments
MODEL: 380501
DESCRIPTION: A compact, autoranging DMM.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 20 amps, 3 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, autoranging, data hold, carrying case
DIMENSIONS/WEIGHT: 5.5 × 3 × 1.5 inches/10 ounces
PRICE: \$79.00

COMPANY: A.W. Sperry Instruments, Inc.
MODEL: DM-4300A
DESCRIPTION: A full-featured multimeter that's rugged enough for professional use, yet inexpensive and simple to use, making it ideal for the hobbyist. An upgrade of the DM-4200A, this meter adds a capacitance test function.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: diode test, audible continuity test, capacitance test function (20 µF, 5 ranges), transistor test
DIMENSIONS/WEIGHT: 5.0 × 2.8 × 1.4 inches/7 ounces
PRICE: \$79.95

COMPANY: Alfa Electronics
MODEL: 175A
DESCRIPTION: A general pur-

pose meter with a capacitance function, a frequency counter, and a logic probe.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, capacitance test (20 µF, 5 ranges), frequency counter (1 Hz–20 MHz), 20-MHz logic probe, transistor gain test, LED test
DIMENSIONS/WEIGHT: 6.3 × 3.3 × 1.5 inches/N.A.
PRICE: \$79.95

COMPANY: Beckman Industrial
MODEL: DM23
DESCRIPTION: Beckman's base multi-function DMM, this meter adds an audible continuity test, a diode test, and a transistor gain measurement to the normal compliment of meter functions.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps DC/AC, 4 ranges DC, 3 ranges AC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor gain function
DIMENSIONS/WEIGHT: 160 × 76 × 36 mm/311 grams
PRICE: \$79.95

COMPANY: Brunelle Instruments, Inc.
MODEL: 4040
DESCRIPTION: This small, low-cost DMM offers a full compliment of useful features including capacitance and frequency measurement functions.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Capacitance measurement function (20 µF, 5 ranges), frequency measurement function (2 Hz–200 kHz, 3 ranges), 20-MHz logic probe, diode test, audible continuity test
DIMENSIONS/WEIGHT: 135 × 72 × 31 mm/ 220 grams
PRICE: \$79.95

COMPANY: Fieldpiece Instruments, Inc.
MODEL: H221
DESCRIPTION: A pen-type multimeter designed for field use.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 3 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 2000 ohms, 2 ranges
SPECIAL FEATURES: Diode test, audible continuity test, drop-and contaminant-resistant case, auto off, data hold
DIMENSIONS/WEIGHT: 7.2 × 1.9 × 1 inches/N.A.
PRICE: \$79.00

COMPANY: Philips ECG
MODEL: DM-55L
DESCRIPTION: An upgrade of the DM-53, this meters features a frequency counter and a logic probe.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 A, 5 ranges AC/DC
RESISTANCE RANGE: 2000 megohms, 7 ranges
SPECIAL FEATURES: Diode test, low-power resistance function, audible continuity test, transistor gain test, frequency counter (200 kHz, 3 ranges), TTL logic probe, carrying case
DIMENSIONS/WEIGHT: 5 × 2.8 × 1.3 inches/7 ounces
PRICE: \$79.95

COMPANY: Radio Shack
MODEL: Micronta 22-194
DESCRIPTION: A full-function

ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, capacitance test (20 µF, 4 ranges)
DIMENSIONS/WEIGHT: 6¾ × 3½ × 1½ inches/5.82 ounces
PRICE: \$79.95

COMPANY: Component Specialties, Inc
MODEL: Emco DMR-2012
DESCRIPTION: A general-purpose meter that includes transistor and capacitor test functions.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: diode test, audible continuity test, transistor gain test, capacitor test (20 µF, 5 ranges), carrying case
DIMENSIONS/WEIGHT: 6¼ × 2¾ × 1¼ inches/N.A.
PRICE: \$81.50

COMPANY: A.W. Sperry Instruments, Inc.
MODEL: DM-3010
DESCRIPTION: A pushbutton operated DMM designed for easy, one-handed use.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Auto zero, auto polarity, low-power resistance function
DIMENSIONS/WEIGHT: 6¾ × 3½ × 1½/10 ounces
PRICE: \$84.95

COMPANY: A.W. Sperry Instruments, Inc.
MODEL: DM-6910
DESCRIPTION: This autoranging (voltage and resistance ranges only) DMM offers many features normally found only in more expensive units. Noteworthy is an expanded resolution feature that extends the measurement capability of each manual range by 50%. An upgrade of the 6510, this meter adds transistor test, diode test, and data hold functions.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 10 amps, 2 ranges AC/DC
RESISTANCE RANGE: 20



DMM with transistor gain and capacitance measurement features.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 4



DIMENSIONS/WEIGHT: 5 × 2¼ × 1¼ inches/N.A.
PRICE: \$84.95

COMPANY: Philips ECG
MODEL: DM-310
DESCRIPTION: A professional quality, general purpose DMM with a low valued resistance range (20-ohm full scale) w/zero adjust and 0.1% basic DC accuracy.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 A, 6 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, low-value resistance range, low-power resistance function
DIMENSIONS/WEIGHT: 6.8 × 3.5 × 1.7 inches/12 ounces
PRICE: \$85.70

COMPANY: Component Specialties, Inc
MODEL: Emco DMR-2208
DESCRIPTION: A general-purpose meter that includes a built-in frequency counter and a capacitor test function.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 4 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: diode test, audible continuity test, carrying case capacitor test (20 µF, 5 ranges), frequency counter (200 kHz, 3 ranges)
DIMENSIONS/WEIGHT: 5¼ × 2¾ × 1¼ inches/N.A.
PRICE: \$87.95

COMPANY: Extech Instruments
MODEL: 380165
DESCRIPTION: This "Mini



Rangemaster" features a built-in logic probe, as well as a frequency counter and a capacitor test function.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 2000 megohms, 7 ranges
SPECIAL FEATURES: Frequency counter (200 kHz, 3 ranges), capacitance test (20 µF, 5 ranges), transistor gain test, logic probe, diode test, audible continuity test
DIMENSIONS/WEIGHT: 2.8 × 5.1 × 1.3 inches/N.A.
PRICE: \$89.00

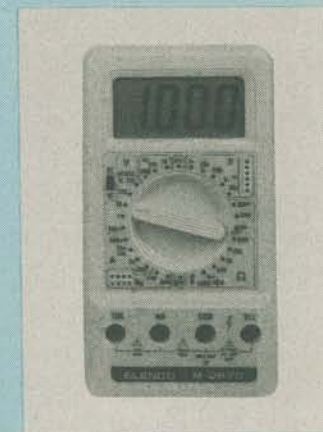
COMPANY: A.W. Sperry Instruments, Inc.
MODEL: DM-8010
DESCRIPTION: A full-featured, general-purpose DMM with a basic DC accuracy of 0.25%.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 7 ranges
SPECIAL FEATURES: instant continuity buzzer, auto zero, auto polarity, diode test, low-power resistance test
DIMENSIONS/WEIGHT: 6.7 × 3.43 × 1.65 inches/10 ounces
PRICE: \$89.95

COMPANY: American Reliance, Inc.
MODEL: AR-160H
DESCRIPTION: This feature packed DMM also measures capacitance and transistor gain.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, capacitance test (1 pF to 19.99 µF, 5 ranges)
DIMENSIONS/WEIGHT: 6.8 × 3.4 × 1.4 inches/10.6 ounces
PRICE: \$89.95

COMPANY: Beckman Industrial
MODEL: DM25xl
DESCRIPTION: This multi-function DMM is an upgrade of the DM23; it adds a capacitance test function, a logic test function, and an extended resistance measurement range to that meter.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps

DC/AC, 4 ranges DC, 3 ranges AC
RESISTANCE RANGE: 2000 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor gain function, capacitance test function (20 µF, 5 ranges, 3% ±10 digit accuracy), logic test, auto off
DIMENSIONS/WEIGHT: 168 × 81 × 35 mm/311 grams
PRICE: \$89.95

COMPANY: Elenco Electronics, Inc.
MODEL: M-2670
DESCRIPTION: An upgrade of the 2660, this meter adds a frequency counter and a logic probe.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges



CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 200 megohms, 7 ranges
SPECIAL FEATURES: Diode test, transistor gain test, capacitance test (20 µF, 5 ranges), audible continuity test, frequency counter (200 kHz, 3 ranges), logic probe function
DIMENSIONS/WEIGHT: N.A.
PRICE: \$89.95

COMPANY: Heath Company
MODEL: 2380
DESCRIPTION: A shock and water resistant autoranging DMM with an analog bargraph display.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, auto/manual ranging, display hold, low-power resistance function,

megohms, 6 ranges (5 ranges low-power mode)

SPECIAL FEATURES: Audible continuity test, auto/manual ranging, extended resolution feature, low-power resistance mode, diode test, transistor gain test, data hold, memory function
DIMENSIONS/WEIGHT: 5.9 × 3 × 1.3 inches/8.1 ounces
PRICE: \$84.95

COMPANY: Beckman Industrial
MODEL: DM20L
DESCRIPTION: An upgrade of the DM15B, this meter adds a transistor gain function, a logic test, and higher resistance ranges yet still retails at a reasonable price.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 2 amps, 5 ranges AC/DC
RESISTANCE RANGE: 2000 megohms, 8 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor gain function, logic test
DIMENSIONS/WEIGHT: 24 × 70 × 120 cm/ 175 grams
PRICE: \$84.95

COMPANY: Component Specialties, Inc
MODEL: SPECO FD-95AR
DESCRIPTION: An autoranging DMM with memory.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 500 volts, 4 ranges
CURRENT RANGE: 10 amps, 3 ranges AC/DC
RESISTANCE RANGE: 2000k ohms, 5 ranges
SPECIAL FEATURES: Auto and manual ranging, range hold, zero adjust, memory mode, carrying case, audible continuity test, low-power resistance mode

shock-proof and waterproof case, analog bargraph display
DIMENSIONS/WEIGHT: N.A.
PRICE: \$89.95

COMPANY: Triplet Corporation
MODEL: 3360
DESCRIPTION: A full featured, auto/manual ranging DMM.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 10 amps, 4 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Audible continuity test, data hold, diode test, auto/manual ranging
DIMENSIONS/WEIGHT: 5½ × 2½ × 1 inches/8 ounces
PRICE: \$91.00

COMPANY: Philips ECG
MODEL: DM-305
DESCRIPTION: A heavy-duty, professional quality, general purpose DMM.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 A, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, water resistant, probe holder
DIMENSIONS/WEIGHT: 6.9 × 3.3 × 1.2 inches/12 ounces
PRICE: \$92.95

COMPANY: B&K Precision
MODEL: 2906
DESCRIPTION: This upgrade of the 2905 features a TTL/CMOS logic probe and a temperature measurement function.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 4 ranges DC/3 ranges AC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, TTL/CMOS logic probe, transistor gain test, temperature measurement (-20 to +1000°C/-4 to +1832°F), drop-resistant case (to 4 ft.)
DIMENSIONS/WEIGHT: 7.5 × 3.6 × 1.4 inches/13 ounces
PRICE: \$99.00

COMPANY: B&K Precision
MODEL: 2911
DESCRIPTION: An auto/manual ranging DMM with an analog bargraph display.
DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750

volts, 5 ranges
CURRENT RANGE: 10 amps, 1 range AC/DC
RESISTANCE RANGE: 40 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, auto/manual ranging, analog bargraph display
DIMENSIONS/WEIGHT: 6.8 × 3.2 × 1.3 inches/13 ounces
PRICE: \$99.00

COMPANY: B&K Precision
MODEL: 2820
DESCRIPTION: A ruggedized DMM for use in industrial and other demanding applications.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, auto power off, probe holder, water- and shock-resistant case
DIMENSIONS/WEIGHT: 6¾ × 3¾ × 1¼ inches/12 ounces
PRICE: \$99.00

COMPANY: B&K Precision
MODEL: 377
DESCRIPTION: This lower-priced version of the 388-HD "portable test bench" offers many of the benefits of that popular DMM.



DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 2000 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, capacitor test (20 µF, 5 ranges), transistor gain test, frequency counter (20 Hz-20 kHz), logic probe (TTL)
DIMENSIONS/WEIGHT: 5 × 2¾ × 1¾ inches/9 ounces
PRICE: \$99.00

COMPANY: Extech Instruments

MODEL: 380166
DESCRIPTION: This "Mini Rangemaster" model features a temperature measurement function, a frequency counter, and a capacitor test function.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 2000 megohms, 7 ranges
SPECIAL FEATURES: Frequency counter (20 kHz, 3 ranges), capacitance test (20 µF, 5 ranges), transistor gain test, temperature measurement function (1400°F/750°C, 1 range), diode test, audible continuity test, beaded wire temperature probe
DIMENSIONS/WEIGHT: 2.8 × 5.1 × 1.3 inches/N.A.
PRICE: \$99.00

COMPANY: John Fluke Mfg. Co., Inc.
MODEL: 73
DESCRIPTION: This upgrade of the model 70 adds an AC/DC current function.
DIGITS: 4 (3200 count)
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 10 amps, 1 range AC/DC
RESISTANCE RANGE: 32 megohms, 6 ranges
SPECIAL FEATURES: Auto/manual ranging, diode test, audible continuity test, "Touch Hold", auto power off, analog bargraph display
DIMENSIONS/WEIGHT: 6.55 × 2.95 × 1.12 inches/12 ounces
PRICE: \$99.00

COMPANY: Omega Engineering, Inc.
MODEL: HHM55
DESCRIPTION: Economical multi-function DMM that measures temperature, frequency, and transistor gain. It is available in two colors; gray and yellow.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Temperature measurement (-58°F-+1999°F, -50-+1300°C), frequency measurement (to 200 kHz), transistor gain measurement, diode test, audible continuity test
DIMENSIONS/WEIGHT: 6.5 × 3.1 × 1.3 inches/8.5 ounces
PRICE: \$99

COMPANY: American Reliance,

Inc.
MODEL: AR-690LP
DESCRIPTION: A feature-packed meter that includes a built-in TTL logic probe.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, conductance function, peak hold, built-in 25-MHz TTL logic probe with audible indicator
DIMENSIONS/WEIGHT: 6.9 × 3.4 × 1.2 inches/10.6 ounces
PRICE: \$99.95

COMPANY: Elenco Electronics, Inc.
MODEL: M-2680
DESCRIPTION: An upgrade of the 2670, this meter adds a temperature measurement function.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 200 megohms, 7 ranges
SPECIAL FEATURES: Diode test, transistor gain test, capacitance test (20 µF, 5 ranges), audible continuity test, frequency counter (20 kHz, 3 ranges), temperature measurement function (-20-+750°C; 0-1400°F, 1 range)
DIMENSIONS/WEIGHT: N.A.
PRICE: \$99.95

COMPANY: Fieldpiece Instruments, Inc.
MODEL: H223
DESCRIPTION: This upgrade of the HS21 adds a dangerous voltage beeper and a capacitance function
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 3 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 2000 ohms, 2 ranges
SPECIAL FEATURES: Diode test, audible continuity test, drop- and contaminant-resistant case, auto off, data hold, capacitance function (200 µF, 1 range), dangerous-voltage alert
DIMENSIONS/WEIGHT: 7.2 × 1.9 × 1 inches/N.A.
PRICE: \$99.00

COMPANY: Fieldpiece Instruments, Inc.
MODEL: HB71
DESCRIPTION: A heavy-duty meter designed for field-service technicians.

DMM MANUFACTURERS AND DISTRIBUTORS

A.W. Sperry Instruments, Inc.
245 Marcus Blvd.
Hauppauge, NY 11788
Tel: 516-231-7050
Fax: 516-434-3128

CIRCLE 116 ON FREE INFORMATION CARD

AEMC Corporation
99 Chauncy St.
Boston, MA 02111
Tel: 617-451-0227
Fax: 617-423-2952

CIRCLE 117 ON FREE INFORMATION CARD

Alfa Electronics
P.O. Box 8089
Princeton, NJ 08543-8089
Tel: 800-526-ALFA, 609-275-0220

CIRCLE 118 ON FREE INFORMATION CARD

American Reliance, Inc.
9952 E. Baldwin Place
El Monte, CA 91731
Tel: 818-575-5110
Fax: 818-575-0801

CIRCLE 121 ON FREE INFORMATION CARD

Amprobe Instrument
630 Merrick Rd., P.O. Box 329
Lynbrook, NY 11563
Tel: 516-593-5600
Fax: 516-593-5682

CIRCLE 122 ON FREE INFORMATION CARD

B&K Precision
6470 W. Cortland St.
Chicago, IL 60635
Tel: 312-889-9087

CIRCLE 123 ON FREE INFORMATION CARD

Beckman Industrial
3883 Ruffin Rd.
San Diego, CA 92123-1898
Tel: 619-495-3200
Fax: 619-268-0172

CIRCLE 124 ON FREE INFORMATION CARD

Brunelle Instruments, Inc.
P.O. Box 1223
Newport, VT 05855
Tel: 800-567-3506
Fax: 819-569-1408

CIRCLE 125 ON FREE INFORMATION CARD

Component Specialties, Inc
1172 Route 109, P.O. Box 624
Lindenhurst, NY 11757
Tel: 516-957-8700
Fax: 516-957-9142

CIRCLE 126 ON FREE INFORMATION CARD

Daetron
7270 Tobram Rd., Unit 22
Mississauga, Ontario,
Canada, L4T 3X2
Tel: 416-676-1600

CIRCLE 127 ON FREE INFORMATION CARD

Elenco Electronics, Inc.
150 West Carpenter Ave.
Wheeling, IL 60090
Tel: 708-541-3800
Fax: 708-520-0085

CIRCLE 128 ON FREE INFORMATION CARD

Extech Instruments
335 Bear Hill Rd.
Waltham, MA 02154
Tel: 617-890-7440
Fax: 617-890-7864

CIRCLE 129 ON FREE INFORMATION CARD

Fieldpiece Instruments, Inc.
8322B Artesia Blvd.
Buena Park, CA 90621
Tel: 714-992-1239

CIRCLE 130 ON FREE INFORMATION CARD

Fordham Radio
260 Motor Parkway
Hauppauge, NY 11788-5134
Tel: 516-435-8080
Fax: 516-435-8079

CIRCLE 131 ON FREE INFORMATION CARD

Global Specialties
70 Fulton Terrace
New Haven, CT 06512
Tel: 203-624-3103
Fax: 203-468-0600

CIRCLE 132 ON FREE INFORMATION CARD

Heath Company
Benton Harbor, MI 49022
Tel: 800-253-0570

CIRCLE 133 ON FREE INFORMATION CARD

Jameco Electronics
1355 Shoreway Rd.
Belmont, CA 94002
Tel: 415-592-8097
Fax: 415-592-2503

CIRCLE 134 ON FREE INFORMATION CARD

John Fluke Mfg. Co.
P.O. Box 9090
Everett, WA 98206
Tel: 206-347-6100
Fax: 206-356-5116

CIRCLE 135 ON FREE INFORMATION CARD

Kelvin Electronics
7 Fairchild Ave.
Plainview, NY 11803
Tel: 516-349-7620
Fax: 516-349-7830

CIRCLE 136 ON FREE INFORMATION CARD

Kyoritsu Instrument
Works, Ltd.
62 N. Coleman Rd.
Centereach, NY 11720
Tel: 516-736-0601
Fax: 516-732-4650

CIRCLE 137 ON FREE INFORMATION CARD

Mercer Electronics
859 Dundee Ave.
Elgin, IL 60120-3090
Tel: 708-697-2265
Fax: 708-697-2272

CIRCLE 138 ON FREE INFORMATION CARD

Omega Engineering, Inc.
One Omega Drive, Box 4047
Stamford, CT 06907
Tel: 203-359-1660
Fax: 203-359-7700

CIRCLE 139 ON FREE INFORMATION CARD

Philips ECG
1025 Westminister Dr.
Williamsport, PA 17701
Tel: 717-323-4691

CIRCLE 140 ON FREE INFORMATION CARD

Radio Shack
One Tandy Center
Fort Worth, TX 76102
Tel: 800-441-2244

CIRCLE 141 ON FREE INFORMATION CARD

Simpson Electric Company
853 Dundee Ave.
Elgin, IL 60120-3090
Tel: 708-697-2260
Fax: 708-697-2272

CIRCLE 142 ON FREE INFORMATION CARD

Tegam, Inc.
7230 North Ridge Rd.
Madison, OH 44057
Tel: 216-428-7505
Fax: 216-428-1068

CIRCLE 143 ON FREE INFORMATION CARD

Triplet Corporation
One Triplet Drive
Bluffton, OH 45817
Tel: 419-358-5015
Fax: 419-358-7956

CIRCLE 144 ON FREE INFORMATION CARD

DIGITS: 3½
DC VOLTAGE RANGE: 1500 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 20 amps, 4 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, drop-and contaminant-resistant case, auto off
DIMENSIONS/WEIGHT: 6.9 × 2.8 × 1.5 inches/N.A.
PRICE: \$99.00

COMPANY: Heath Company
MODEL: 2372
DESCRIPTION: This upgrade of the 2311 adds a frequency coun-



ter and a logic probe function
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750

volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, capacitance test (20µF, 5 ranges), frequency counter (20 MHz, 5 ranges), logic probe, led test
DIMENSIONS/WEIGHT: N.A.
PRICE: \$99.95

COMPANY: Jameco Electronics
MODEL: Metex M4650
DESCRIPTION: This upgrade of the M4650 adds a 4½-digit display and a data-hold feature.
DIGITS: 3½
DC VOLTAGE RANGE: 1000

volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 amps, 4 ranges DC/3 ranges AC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor gain test, capacitance function (20 µF, 3 ranges), frequency counter (200 kHz, 2 ranges), data hold, carrying case
DIMENSIONS/WEIGHT: 7 × 3.5 × 1.5 inches/1.7 pounds
PRICE: \$99.95

COMPANY: Radio Shack
MODEL: Micronta 22-164
DESCRIPTION: An autoranging DMM with a built-in speech syn-



thesizer for audible readouts.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 300 mA, 1 range AC/DC
RESISTANCE RANGE: 30 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, auto-ranging, built-in speech synthesizer for audible readings (voice button on special probe)
DIMENSIONS/WEIGHT: 6¼ × 3½ × 1¼ inches/8 ounces
PRICE: \$99.95

\$100-\$150

COMPANY: Component Specialties, Inc
MODEL: SPEC0 FD-100TC
DESCRIPTION: This versatile multimeter offers capacitor and transistor tests.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 700 volts, 5 ranges
CURRENT RANGE: 20 amps, 5 ranges DC/4 ranges AC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Audible continuity test with LED indicator, diode test, capacitance test (20 µF, 5 ranges), transistor test, carrying case
DIMENSIONS/WEIGHT: 6¼ × 3½ × 1½ inches/N.A.
PRICE: \$103.95

COMPANY: Component Specialties, Inc
MODEL: Emco DMR-3600B
DESCRIPTION: A good general-purpose meter with capacitor and transistor test functions and an analog bargraph display
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Analog bargraph display, transistor test function, capacitor test function (20 µF, 5 ranges), diode test, audible continuity test, carrying case
DIMENSIONS/WEIGHT: N.A.
PRICE: \$103.95

COMPANY: Extech Instruments
MODEL: 380168
DESCRIPTION: This "Range-master II" is built into an industrial-size case and features a large (0.7-inch) display. In addition to standard functions, it measures frequency, capacitance, and more.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Frequency counter (200kHz, 3 ranges), capacitance test (20 µF, 4 ranges), transistor gain test, diode test, audible continuity test
DIMENSIONS/WEIGHT: 3 × 6.4 × 1.3 inches/N.A.
PRICE: \$109.00

COMPANY: Omega Engineering, Inc.
MODEL: HHM57
DESCRIPTION: A full-featured DMM that also offers temperature, transistor gain, and capacitance measurement functions.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 2000 megohms, 7 ranges



SPECIAL FEATURES: Temperature measurement (1400°F, 2 ranges; 750°C, 2 ranges), capacitance measurement (20 µF, 5 ranges), transistor gain test, diode test, audible continuity test, type K beaded wire probe, carrying case
DIMENSIONS/WEIGHT: N.A.
PRICE: \$109.00

COMPANY: Amprobe Instrument
MODEL: AM-4B
DESCRIPTION: An industrial-quality meter that includes low-current and low-resistance ranges.
DIGITS: 3½
DC VOLTAGE RANGE: 1500 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 2 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test,
DIMENSIONS/WEIGHT: 6⅞ × 3½ × 1¼ inches/12.36 ounces
PRICE: \$109.85

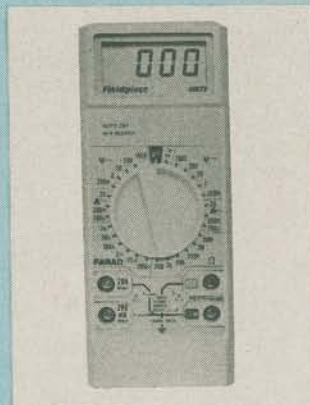
COMPANY: Beckman Industrial
MODEL: DM27xl
DESCRIPTION: This multi-function DMM is an upgrade of the DM25xl; it adds a frequency measurement function and an LED test.



DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps DC/AC, 5 ranges
RESISTANCE RANGE: 2000 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor gain function, capacitance test function (20 µF, 5 ranges, 3% ± 10 digit accuracy), frequency measurement (10 Hz-20 MHz), logic test, LED test, auto off
DIMENSIONS/WEIGHT: 168 × 81 × 35 mm/311 grams
PRICE: \$109.95

COMPANY: Fieldpiece Instruments, Inc.
MODEL: HB73
DESCRIPTION: This upgrade of the HB71 adds a capacitance function
DIGITS: 3½
DC VOLTAGE RANGE: 1500 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 20 amps, 4

ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, drop-and contaminant-resistant case,



capacitance function (200 µF, 5 ranges), auto off
DIMENSIONS/WEIGHT: 6.9 × 2.8 × 1.5 inches/N.A.
PRICE: \$109.00

COMPANY: Component Specialties, Inc
MODEL: Emco DMR-2208
DESCRIPTION: A full-featured meter that includes transistor, capacitor, and frequency test function and a built-in TTL logic probe.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, transistor test, capacitor test (20 µF, 5 ranges), frequency counter (200 kHz, 3 ranges), TTL logic probe, carrying case
DIMENSIONS/WEIGHT: 7½ × 3½ × 1½ inches/N.A.
PRICE: \$111.75

COMPANY: Extech Instruments
MODEL: 380196
DESCRIPTION: An autoranging, multi-featured DMM in a weather-proof case.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 20 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Analog bargraph display, diode test, audible continuity test, auto/manual ranging, data hold, memory offset, weatherproof case, probe holder, auto power off

DIMENSIONS/WEIGHT: 6.8 × 3.3 × 1.2 inches/12.6 ounces
PRICE: \$119.00

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-8100
DESCRIPTION: A member of the "Techmaster" series, this drop-proof, water-resistant, professional-quality meter is designed to operate even under adverse conditions.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 20 amps, 4 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Autoranging, audible continuity test, logic indicator, data hold, range hold, relative readings, low-power resistance, diode test, auto power off
DIMENSIONS/WEIGHT: 7.5 × 3.4 × 1.5 inches/12.9 ounces
PRICE: \$119.95

COMPANY: Fieldpiece Instruments, Inc.

MODEL: H225
DESCRIPTION: This upgrade of the HS23 adds a logic probe.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 3 ranges
CURRENT RANGE: N.A.
RESISTANCE RANGE: 2000 ohms, 2 ranges
SPECIAL FEATURES: Diode test, audible continuity test, drop-and contaminant-resistant case, auto off, data hold, capacitance function (200 µF, 1 range), dangerous-voltage alert, logic probe
DIMENSIONS/WEIGHT: 7.2 × 1.9 × 1 inches/N.A.
PRICE: \$119.00

COMPANY: Kyoritsu Instrument Works, Ltd.

MODEL: 1007
DESCRIPTION: A rugged, 3½-digit autoranging DMM that offers good accuracy and plenty of features at an economical price.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 12 amps, 2 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Autoranging, audible continuity test, diode test, data hold, range hold, low-power resistance range
DIMENSIONS/WEIGHT: 163 × 78 × 30 mm/300 grams
PRICE: \$119.95

COMPANY: B&K Precision

MODEL: 388-HD
DESCRIPTION: A professional-quality DMM with a full complement of useful functions and features.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 amps, 6 ranges AC/DC
RESISTANCE RANGE: 2000 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, capacitor test (20 µF, 5 ranges), transistor gain test, frequency counter (20 Hz–20 kHz), logic probe (TTL), drop resistant (to 4 ft.)
DIMENSIONS/WEIGHT: 7½ × 3½ × 1¼ inches/13 ounces
PRICE: \$129.00

COMPANY: Beckman Industrial
MODEL: 223F

DESCRIPTION: This professional-quality, autoranging DMM features an audible readout that changes pitch with changes in input levels.

DIGITS: 3½



DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 5 ranges
SPECIAL FEATURES: Autoranging, Diode test, continuity test, logic-pulse detector, audible readout
DIMENSIONS/WEIGHT: 173 × 71 × 32 mm/326 grams
PRICE: \$129.00

COMPANY: Brunelle Instruments, Inc.

MODEL: 4070
DESCRIPTION: A pushbutton-operated 4½-digit DMM.

DIGITS: 4½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, transistor gain test, audible and visible continuity test
DIMENSIONS/WEIGHT: N.A.
PRICE: \$129.00

COMPANY: Philips ECG
MODEL: DM-410
DESCRIPTION: A 4½-digit DMM with .05% basic DC accuracy.

DIGITS: 4½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 A, 4 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible and visible continuity test, 200-ohm range with zero adjust
DIMENSIONS/WEIGHT: 6.8 × 3.5 × 1.7 inches/12.5 ounces
PRICE: \$129.00

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-8400
DESCRIPTION: A member of the "Techmaster" series, this drop-proof, water-resistant, professional-quality meter is designed to operate even under adverse conditions.

DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 20 amps, 4 ranges AC/DC
RESISTANCE RANGE: 400 megohms, 7 ranges
SPECIAL FEATURES: Diode test, audible continuity test, logic indicator, data hold, auto power off, frequency/ duty-cycle test (0 to 4000 kHz, 4 ranges), peak hold, low-power resistance test
DIMENSIONS/WEIGHT: 7.5 × 3.4 × 1.5 inches/12.9 ounces
PRICE: \$129.95

COMPANY: Alfa Electronics
MODEL: 2360

DESCRIPTION: A general purpose meter with a capacitance function, an inductance function, a frequency counter, a temperature function, and a logic probe.

DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 4 ranges AC/DC
RESISTANCE RANGE: 40 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, capacitance test (40 µF, 5 ranges), frequency counter (1 Hz–4 MHz), 20-MHz logic probe, temperature function (302°F/150°C, 1 range), peak hold, carrying case
DIMENSIONS/WEIGHT: 7.4 × 3.5 × 1.5 inches/13.2 ounces
PRICE: \$129.95

COMPANY: American Reliance, Inc.

MODEL: AR-3000
DESCRIPTION: A programmable, autoranging 3¾-digit DMM with an analog bargraph display, a dBm function for audio/communications applications, and 0.5% basic DCV accuracy.

DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 20 amps, 3 ranges AC/DC
RESISTANCE RANGE: 40 megohms, 6 ranges
SPECIAL FEATURES: dBm function, diode test, audible continuity test, analog bargraph display, logic probe function, relative measurement mode, data hold, min/max function, auto power off, auto and manual ranging, range hold
DIMENSIONS/WEIGHT: 6.4 × 3.25 × 1.4 inches/12.5 ounces
PRICE: \$129.95

COMPANY: Beckman Industrial
MODEL: 300A

DESCRIPTION: A no-frills, professional-quality DMM that offers good precision and reliability at an affordable price.

DIGITS: 3½
DC VOLTAGE RANGE: 1500 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 2 amps AC/DC, 5 ranges
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, continuity test
DIMENSIONS/WEIGHT: 17.4 × 9.3 × 4.6 cm/N.A.
PRICE: \$135.00

COMPANY: Exttech Instruments
MODEL: 380198

DESCRIPTION: An autoranging, multi-featured DMM. This "deluxe" model is an upgrade of the 380196 and adds capacitance and frequency measurement functions.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 20 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Analog

bargraph display, diode test, audible continuity test, auto/manual ranging, data hold, memory off-set, capacitance function (20 μ F, 5 ranges), frequency counter (20 kHz, 2 ranges), probe holder, auto power off
DIMENSIONS/WEIGHT: 6.8 × 3.3 × 1.2 inches/12.6 ounces
PRICE: \$139.00

COMPANY: John Fluke Mfg. Co., Inc.

MODEL: 75/21

DESCRIPTION: This upgrade of the model 73 adds two additional current ranges. Available in industrial yellow as the model 21.

DIGITS: 4 (3200 count)

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 10 amps, 3 ranges AC/DC

RESISTANCE RANGE: 32 megohms, 6 ranges

SPECIAL FEATURES: Auto/manual ranging, diode test, audible continuity test, "Touch Hold", auto power off, analog bargraph display

DIMENSIONS/WEIGHT: 6.55 × 2.95 × 1.12 inches/12 ounces
PRICE: \$139.00

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-8500

DESCRIPTION: A member of the "Techmaster" series, this drop-proof, water-resistant, professional-quality meter is designed to operate under even adverse conditions. An upgrade of the DM-8400, this meter adds a capacitance function but deletes the DM-8400's duty-cycle function.

DIGITS: 3 $\frac{3}{4}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 20 amps, 3 ranges AC/DC

RESISTANCE RANGE: 40 megohms, 6 ranges

SPECIAL FEATURES: Audible continuity test, diode test, logic indicator, transistor gain test, peak hold, auto power off, capacitance test (40 μ F, 5 ranges), frequency test (4000 kHz, 4 ranges)

DIMENSIONS/WEIGHT: 7.5 × 3.4 × 1.5 inches/12.9 ounces
PRICE: \$139.95

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-8200

DESCRIPTION: A member of the "Techmaster" series, this drop-proof, water-resistant, professional-quality meter is designed to operate even under adverse conditions. An upgrade of the DM-8100, this meter adds an analog bargraph display

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 20 amps, 4 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, logic indicator, data hold, range hold, relative readings, low-power resistance, auto power off, analog bargraph display, autoranging

DIMENSIONS/WEIGHT: 7.5 × 3.4 × 1.5 inches/12.9 ounces

PRICE: \$139.95

COMPANY: Fieldpiece Instruments, Inc.

MODEL: HB75

DESCRIPTION: This upgrade of the HB73 adds a logic probe and an analog, variable-pitch output

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1500 volts, 5 ranges

AC VOLTAGE RANGE: 1000 volts, 5 ranges

CURRENT RANGE: 20 amps, 3 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, drop-and contaminant-resistant case, capacitance function (200 μ F, 5 ranges), logic probe, variable-pitch analog output, auto off

DIMENSIONS/WEIGHT: 6.9 × 2.8 × 1.5 inches/N.A.

PRICE: \$139.00

COMPANY: Global Specialties

MODEL: Protometer 4000

DESCRIPTION: A 3 $\frac{3}{4}$ DMM capable of performing 35 measurement functions.

DIGITS: 3 $\frac{3}{4}$



DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 20 amps, 4 ranges AC/DC

RESISTANCE RANGE: 40

megohms, 6 ranges

SPECIAL FEATURES: Measures capacitance (4 nF to 40 μ F over 5 ranges); measures frequency (0-4 MHz, autoranging); diode/LED test; transistor gain test; logic probe function; peak hold; high-voltage warning; audible continuity test; impact resistant case

DIMENSIONS/WEIGHT: 3.5 × 1.5 × 7.6 inches/ 1 lb.

PRICE: \$139.95

COMPANY: Mercer Electronics

MODEL: 9401

DESCRIPTION: A 4 $\frac{1}{2}$ -digit DMM with a data hold function and audible and visual continuity indicators.

DIGITS: 4 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 4 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible and visual continuity test, data hold

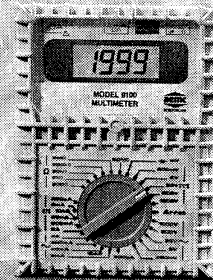
DIMENSIONS/WEIGHT: 6.69 × 3.43 × 1.65 inches/12.1 ounces

PRICE: \$141.75

COMPANY: AEMC Corporation

MODEL: 9100

DESCRIPTION: This meter is built into a sturdy rubber housing to protect the unit from damage due to accidental drops



DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 1000 volts, 5 ranges

CURRENT RANGE: 20 amps, 6 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, rubber housing

DIMENSIONS/WEIGHT: 5.7 × 4.1 × 1.7 inches/12.7 ounces

PRICE: \$149.00

COMPANY: B&K Precision

MODEL: 2912

DESCRIPTION: This upgrade of the 2911 offers twice as many measurement ranges and adds

several useful functions.

DIGITS: 3 $\frac{3}{4}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 40 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, auto/manual ranging, analog bargraph display, frequency counter (400 kHz, 4 ranges), capacitance test (40 mF, 8 ranges), data hold, peak hold, min/max memory

DIMENSIONS/WEIGHT: 6.8 × 3.2 × 1.3 inches/13 ounces

PRICE: \$149.00

COMPANY: Beckman Industrial

MODEL: RMS225

DESCRIPTION: A top-of-the line, full-function, autoranging DMM designed with the professional user in mind.

DIGITS: 4 digits

DC VOLTAGE RANGE: 1000 volts, 4 ranges

AC VOLTAGE RANGE: 750 volts, 3 ranges

CURRENT RANGE: 10 amps AC/DC, 3 ranges

RESISTANCE RANGE: 40 megohms, 6 ranges

SPECIAL FEATURES: True rms reading, automatic min/max mode, relative-measurement mode, probe hold, analog bargraph display, self-resetting fuse, audible overload alert, automatic power down, diode test, protective holster

DIMENSIONS/WEIGHT: 7.6 × 3.2 × 1.6 inches (with holster)/11.57 ounces

PRICE: \$149.00

COMPANY: Tegam, Inc.

MODEL: 130A

DESCRIPTION: An industrial-quality meter with a dust-, splash-, and drop-proof case.

DIGITS: 3 $\frac{1}{2}$

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 5 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 5 ranges

SPECIAL FEATURES: Diode test; splash-, dust- and drop-resistant case

DIMENSIONS/WEIGHT: 7 × 3.1 × 1.6 inches/1 pound

PRICE: \$149.00

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-8600

DESCRIPTION: A member of the "Techmaster" series, this drop-proof, water-resistant, professional-quality meter is designed to operate under even adverse conditions. An upgrade of the DM-8500, this meter re-

places the capacitance function with a temperature measurement function.

DIGITS: 3¾

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 20 amps, 5 ranges AC/DC

RESISTANCE RANGE: 40 megohms, 6 ranges

SPECIAL FEATURES: Audible continuity test, diode test, logic indicator, peak hold, auto power off, temperature measurement test (-40°-400°C/1300°C; -58°-400°F/2372°F), frequency measurement (4000 kHz, 4 ranges)

DIMENSIONS/WEIGHT: 7.5 × 3.4 × 1.5 inches/12.9 ounces
PRICE: \$149.95

COMPANY: American Reliance, Inc.

MODEL: AR-170NL

DESCRIPTION: This true rms reading DMM features audio level (in dBm) and system noise measurement functions making it especially useful for audio or communications applications. Basic DCV accuracy is 0.1%.

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 6 ranges

AC VOLTAGE RANGE: 750 volts, 6 ranges

CURRENT RANGE: 10 amps, 7 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 7 ranges

SPECIAL FEATURES: Diode test, audible continuity test, true rms reading, audio level function (-70 to +60 dBm), system-noise function with 3-kHz flat weighting filter

DIMENSIONS/WEIGHT: 6.8 × 3.4 × 1.4 inches/11.7 ounces
PRICE: \$149.95

COMPANY: American Reliance, Inc.

MODEL: AR-3010

DESCRIPTION: A programmable, autoranging 3¾-digit DMM with an analog bargraph display and a dBm function for audio/communications applications. An upgrade of the AR-3000, this meter offers better accuracy (0.25% basic DCV accuracy) and adds a level comparator ("range alert") function.

DIGITS: 3¾

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 20 amps, 3 ranges AC/DC

RESISTANCE RANGE: 40 megohms, 6 ranges

SPECIAL FEATURES: dBm function, diode test, audible continuity test, analog bargraph display, logic probe function, relative

measurement mode, data hold, min/max function, auto power off, auto and manual ranging, range hold, range alert
DIMENSIONS/WEIGHT: 6.4 × 3.25 × 1.4 inches/12.5 ounces
PRICE: \$149.95

\$150-\$200

COMPANY: B&K Precision

MODEL: 2940

DESCRIPTION: This 4½-digit DMM includes a built-in frequency counter.

DIGITS: 4½

DC VOLTAGE RANGE: 1000 volts, 5 ranges



AC VOLTAGE RANGE: 750 volts, 5 ranges

CURRENT RANGE: 10 amps, 6 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, frequency counter (20 Hz-200 kHz), data hold, drop resistant case (to 4 ft.)

DIMENSIONS/WEIGHT: 7.5 × 3.6 × 1.4 inches/13 ounces
PRICE: \$160.00

COMPANY: Beckman Industrial

MODEL: 310B

DESCRIPTION: A no-frills, professional-quality DMM that offers good precision and reliability at an affordable price. An upgrade of the 300A, this model adds a 10-amp current range and a beeper for the continuity test function.

DIGITS: 3½

DC VOLTAGE RANGE: 1500 volts, 5 ranges

AC VOLTAGE RANGE: 1000 volts, 5 ranges

CURRENT RANGE: 10 amps, 6 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test

DIMENSIONS/WEIGHT: 17.4 × 9.3 × 4.6 cm/N.A.

PRICE: \$165.00

COMPANY: John Fluke Mfg. Co., Inc.

MODEL: 77/23

DESCRIPTION: This upgrade of the model 75 offers improved basic DC accuracy and includes

Fluke's Holster/Flex stand. It is available in industrial yellow as the model 23.

DIGITS: 4 (3200 count)

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 10 amps, 3 ranges AC/DC

RESISTANCE RANGE: 32 megohms, 6 ranges

SPECIAL FEATURES: Auto/manual ranging, diode test, audible continuity test, "Touch Hold", auto power off, analog bargraph display, Holster/Flex stand

DIMENSIONS/WEIGHT: 6.55 × 2.95 × 1.12 inches/12 ounces

PRICE: \$165.00

COMPANY: Beckman Industrial

MODEL: HD153

DESCRIPTION: This heavy-duty meter is designed for dependability under demanding industrial conditions with all sensitive circuits shock mounted. Among its advanced features are autoranging and an audible readout that changes pitch as the meter's input levels increase or decrease.

DIGITS: 3½

DC VOLTAGE RANGE: 1500 volts, 5 ranges

AC VOLTAGE RANGE: 1000 volts, 5 ranges

CURRENT RANGE: 10 amps AC/DC, 5 ranges

RESISTANCE RANGE: 20 megohms, 5 ranges

SPECIAL FEATURES: Autoranging, diode test, continuity test, logic-pulse detector, audible readout, sealed "environment-proof" case

DIMENSIONS/WEIGHT: 173 × 71 × 32 mm/326 grams.

PRICE: \$169.00

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-8300

DESCRIPTION: A member of the "Techmaster" series, this drop-proof, water-resistant, professional-quality meter is designed to operate even under



adverse conditions. An upgrade of the DM-8200, this meter adds a temperature measurement function

DIGITS: 3½

DC VOLTAGE RANGE: 1000 volts, 5 ranges

AC VOLTAGE RANGE: 750 volts, 4 ranges

CURRENT RANGE: 20 amps, 4 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, logic indicator, data hold, range hold, relative readings, low-power resistance, auto power off, analog bargraph display, autoranging, temperature measurement function (-58°F-200°/2372°F; -50°C-200°/1300°C)

DIMENSIONS/WEIGHT: 7.5 × 3.4 × 1.5 inches/12.9 ounces

PRICE: \$169.95

COMPANY: Fieldpiece Instruments, Inc.

MODEL: HB77

DESCRIPTION: This upgrade of the HB75 is true-rms reading.

DIGITS: 3½

DC VOLTAGE RANGE: 1500 volts, 5 ranges

AC VOLTAGE RANGE: 1000 volts, 5 ranges

CURRENT RANGE: 20 amps, 3 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, audible continuity test, drop- and contaminant-resistant case, capacitance function (200 µF, 5 ranges), logic probe, variable-pitch analog output, true-rms reading, auto off

DIMENSIONS/WEIGHT: 6.9 × 2.8 × 1.5 inches/N.A.

PRICE: \$179.00

COMPANY: Beckman Industrial

MODEL: HD100

DESCRIPTION: This heavy-duty meter is designed for dependability under demanding industrial conditions. The case is fire retardant and waterproof.

DIGITS: 3½

DC VOLTAGE RANGE: 1500 volts, 5 ranges

AC VOLTAGE RANGE: 1000 volts, 5 ranges

CURRENT RANGE: 2 amps, 5 ranges AC/DC

RESISTANCE RANGE: 20 megohms, 6 ranges

SPECIAL FEATURES: Diode test, continuity test

DIMENSIONS/WEIGHT: 17.4 × 9.3 × 4.6 cm/N.A.

PRICE: \$185.00

COMPANY: John Fluke Mfg. Co., Inc.

MODEL: 79/29

DESCRIPTION: The top meter in Fluke's 70 series, this meter includes capacitance and frequency functions, a low-ohms range,



and a smoothing function that displays a running average of last 8 readings.

DIGITS: 4 (4000 count)
DC VOLTAGE RANGE: 1000 volts, 6 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 4 ranges AC/DC
RESISTANCE RANGE: 40 megohms, 7 ranges
SPECIAL FEATURES: Auto/manual ranging, diode test, audible continuity test, "Touch Hold," auto power off, analog bargraph display, Holster/Flex stand, capacitance function (9999 μ F, 6 ranges), frequency counter (>20 kHz, 5 ranges), low-ohms range, smoothing function
DIMENSIONS/WEIGHT: 6.55 \times 2.95 \times 1.12 inches/12 ounces
PRICE: \$185.00

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-8700
DESCRIPTION: A member of the "Techmaster" series, this drop-proof, water-resistant, professional-quality meter is designed to operate under even adverse conditions. An upgrade of the DM-8600, this meter features a 4½-digit display and is true rms reading.

DIGITS: 4½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 20 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Audible continuity test, diode test, logic indicator, data hold, auto power off, frequency measurement test (4000 kHz, 4 ranges), duty-cycle test
DIMENSIONS/WEIGHT: 7.5 \times 3.4 \times 1.5 inches/12.9 ounces
PRICE: \$189.95

COMPANY: A.W. Sperry Instruments, Inc.

MODEL: DM-7010
DESCRIPTION: A 4½-digit multimeter with 0.05% basic DCV

accuracy, a built in frequency counter, and a conductance function.

DIGITS: 4½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, frequency counter (200 kHz, 2 ranges), 200 nS conductance range,
DIMENSIONS/WEIGHT: 6.9 \times 3.4 \times 1.3 inches/10.2 ounces
PRICE: \$190.00

COMPANY: B&K Precision
MODEL: 2907
DESCRIPTION: This true-rms reading DMM is an upgrade of the 2906.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 3 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, TTL/CMOS logic probe, transistor gain test, true rms reading, capacitance measurement (20 μ F, 5 ranges), peak hold, drop-resistant case (to 4 ft.)
DIMENSIONS/WEIGHT: 7.5 \times 3.6 \times 1.4 inches/13 ounces
PRICE: \$195.00

COMPANY: Beckman Industrial
MODEL: 800
DESCRIPTION: A professional-quality DMM that offers good precision and reliability. This 4½ digit model offers frequency measurement and data-hold functions.

DIGITS: 4½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, frequency test function (200 kHz, 2 ranges), data hold
DIMENSIONS/WEIGHT: 174 \times 90 \times 36 mm/370 grams
PRICE: \$199.00

COMPANY: Beckman Industrial
MODEL: 320B
DESCRIPTION: A no-frills, professional-quality DMM that offers good precision and reliability at an affordable price. An upgrade of the 310B, this model offers improved precision.

DIGITS: 3½
DC VOLTAGE RANGE: 1500



volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test
DIMENSIONS/WEIGHT: 17.4 \times 9.3 \times 4.6 cm/N.A.
PRICE: \$199.00

COMPANY: John Fluke Mfg. Co., Inc.

MODEL: 83
DESCRIPTION: The base meter in the 80 series, this unit offers a full compliment of useful features.

DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 40 megohms, 7 ranges
SPECIAL FEATURES: Auto/manual ranging, diode test, audible continuity test, "Touch Hold," auto power off, analog bargraph display with zoom mode, capacitance function (5 μ F, 4 ranges), frequency counter (>200 kHz, 5 ranges), duty cycle function, min/max mode, conductance function, relative mode, holster/flex stand
DIMENSIONS/WEIGHT: 7.35 \times 3.41 \times 1.25 inches/12.5 ounces
PRICE: \$199.00

COMPANY: Simpson Electric Company

MODEL: 487
DESCRIPTION: An industrial-quality DMM with a 3¾-digit display, auto/manual ranging, and a shock-proof case.

DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 30

megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, analog bargraph display, auto/manual ranging, data hold, peak hold, neck strap
DIMENSIONS/WEIGHT: 7.3 \times 3.9 \times 1.9 inches/1.11 pounds
PRICE: \$199.00

COMPANY: American Reliance, Inc.

MODEL: AR-270NL
DESCRIPTION: This 4½ digit, true rms reading DMM features audio level and system noise functions.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, true rms reading, audio level function (-60 to +60 dBm), system noise function with built in 3-kHz flat weighting filter.
DIMENSIONS/WEIGHT: 6.8 \times 3.4 \times 1.4 inches/11.1 ounces
PRICE: \$199.95

COMPANY: American Reliance, Inc.

MODEL: AR-3100
DESCRIPTION: A programmable, autoranging 3¾-digit DMM with an analog bargraph display, a dBm function for audio/communications, and 0.25% basic DCV accuracy. An upgrade of the AR-3010, this meter is drop proof (to 10 feet) and adds 3 additional ranges to the current function.

DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 20 amps, 6 ranges AC/DC
RESISTANCE RANGE: 40 megohms, 6 ranges
SPECIAL FEATURES: dBm function, diode test, audible continuity test, analog bargraph display, logic probe function, relative measurement mode, data hold, min/max function, auto power off, auto/manual ranging, range hold, range alert
DIMENSIONS/WEIGHT: 6.4 \times 3.25 \times 1.4 inches/12.5 ounces
PRICE: \$199.95

COMPANY: Simpson Electric Company

MODEL: 470
DESCRIPTION: A professional quality DMM.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5



ranges AC/DC
RESISTANCE RANGE: 20 megohms, 5 ranges
SPECIAL FEATURES: Diode test, audible continuity test
DIMENSIONS/WEIGHT: 7.1 × 3.4 × 1.8 inches/1 pound
PRICE: \$200.00

OVER \$200

COMPANY: Beckman Industrial
MODEL: 850

DESCRIPTION: A professional-quality DMM that offers good precision and reliability. This 4½ digit model offers frequency measurement and data-hold functions. An upgrade of the 800, this meter adds true rms sensing

DIGITS: 4½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, frequency test function (200 kHz, 2 ranges), data hold, true rms sensing
DIMENSIONS/WEIGHT: 174 × 90 × 36 mm/370 grams
PRICE: \$209.00

COMPANY: Beckman Industrial
MODEL: HD110/HD110T

DESCRIPTION: This heavy-duty meter is designed for dependability under demanding industrial conditions. The case is fire retardant and waterproof. This meter adds a 10-amp range to the HD100; a temperature measurement function is also added in the HD110T

DIGITS: 3½
DC VOLTAGE RANGE: 1500 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, continuity test, temperature measurement from -20 to

+1260°C (type K thermocouple input) model HD110T only

DIMENSIONS/WEIGHT: 17.4 × 9.3 × 4.6 cm/ N.A.

PRICE: \$209.00 (HD110)/\$239.00 (HD110T)

COMPANY: AEMC Corporation
MODEL: 9000

DESCRIPTION: This meter is built into a sturdy rubber housing to protect the unit from damage due to accidental drops. An upgrade of the 9100, it offers higher accuracy, an audible continuity test, and two low-impedance voltage ranges.

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 15 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, rubber housing, audible continuity test (all resistance ranges), two low-impedance voltage ranges (2 and 300 volts)
DIMENSIONS/WEIGHT: 5.67 × 4.1 × 1.65 inches/1 pound
PRICE: \$229.00

COMPANY: Beckman Industrial
MODEL: 330B

DESCRIPTION: A professional-quality DMM that offers good precision and reliability at an affordable price. An upgrade of the 320B, this model is true rms sensing.

DIGITS: 3½
DC VOLTAGE RANGE: 1500 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, true rms sensing
DIMENSIONS/WEIGHT: 17.4 × 9.3 × 4.6 cm/N.A.
PRICE: \$229.00

COMPANY: American Reliance, Inc.

MODEL: AR-3200



DESCRIPTION: A programmable, autoranging 3¾-digit DMM with an analog bargraph display, a dBm function for audio/communications, and 0.25% basic DCV accuracy. An upgrade of the AR-3100, this meter is water and contaminant proof

DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 20 amps, 3 ranges AC/DC
RESISTANCE RANGE: 40 megohms, 6 ranges
SPECIAL FEATURES: dBm function, diode test, audible continuity test, analog bargraph display, logic probe function, relative measurement mode, data hold, min/max function, auto power off, auto and manual ranging, range hold, range alert
DIMENSIONS/WEIGHT: 6.4 × 3.25 × 1.4 inches/12.5 ounces
PRICE: \$229.95

COMPANY: Daetron
MODEL: MM100

DESCRIPTION: This unusual multimeter is capable of displaying up to four readings simultaneously on a 16-character × 2-line dot matrix LCD.

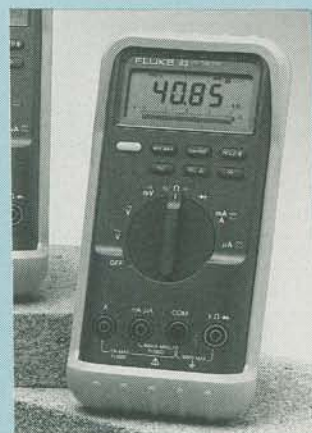
DIGITS: 4½ (up to 2 readings)/3½ (up to 4 readings)
DC VOLTAGE RANGE: 500 volts, 5 ranges
AC VOLTAGE RANGE: 500 volts, 4 ranges
CURRENT RANGE: 2 amps, 2 ranges DC only
RESISTANCE RANGE: 20 megohms, 5 ranges
SPECIAL FEATURES: Multiple-reading display, audible continuity test, analog bargraph display, manual or autoranging, hold function, relative mode, audible-response keypad
DIMENSIONS/WEIGHT: 276 × 250 × 60 mm/N.A.
PRICE: \$229.95

COMPANY: John Fluke Mfg. Co., Inc.

MODEL: 85

DESCRIPTION: This upgrade of the 83 offers higher accuracy.

DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 40 megohms, 7 ranges
SPECIAL FEATURES: Auto/manual ranging, diode test, audible continuity test, "Touch Hold," auto power off, analog bargraph display with zoom mode, capacitance function (5 µF, 4 ranges), frequency counter (>200 kHz, 5 ranges), duty cycle function, min/max mode, conductance func-



tion, relative mode, holster/flex stand

DIMENSIONS/WEIGHT: 7.35 × 3.41 × 1.25 inches/12.5 ounces
PRICE: \$239.00

COMPANY: Simpson Electric Company

MODEL: 488

DESCRIPTION: A true-rms reading version of the 487.

DIGITS: 3¾
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 30 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, analog bargraph display, auto/manual ranging, data hold, peak hold, true-rms reading, neck strap
DIMENSIONS/WEIGHT: 7.3 × 3.9 × 1.9 inches/1.11 pounds
PRICE: \$239.00

COMPANY: Tegam, Inc.

MODEL: 132C/132F

DESCRIPTION: This industrial-quality meter is true-rms reading and has a temperature measurement function

DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 2000 mA, 4 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 5 ranges
SPECIAL FEATURES: Diode test, true-rms reading, temperature function (132F: 0–2000°F, 1 range; 132C: -20–1370°C, 1 range), drop-proof case
DIMENSIONS/WEIGHT: 7 × 3.1 × 1.6 inches/1 pound
PRICE: \$239.00

COMPANY: American Reliance, Inc.

MODEL: AR-150W

DESCRIPTION: This drop-proof unit is a dual DMM/wattmeter and will measure true AC power up to 5500 watts



DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, audible continuity test, power measurement (to 5500 watts, 2 ranges)
DIMENSIONS/WEIGHT: 6.8 × 3.4 × 1.4 inches/10.6 ounces
PRICE: \$249.95

COMPANY: B&K Precision
MODEL: 2945
DESCRIPTION: This 4½-digit, true-rms reading DMM is an upgrade of the 2940.
DIGITS: 4½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges



SPECIAL FEATURES: Diode test, audible continuity test, frequency counter (20 Hz–200 kHz), data hold, true-rms reading, temperature measurement (–20 to +1000°C/–4 to

+1832°F), drop-resistant case (to 4 ft.)
DIMENSIONS/WEIGHT: 7.5 × 3.6 × 1.4 inches/13 ounces
PRICE: \$259.00

COMPANY: Beckman Industrial
MODEL: 4410B
DESCRIPTION: A professional-quality DMM that offers good precision and reliability at an affordable price. This 4½-digit model is true rms sensing.
DIGITS: 4½
DC VOLTAGE RANGE: 1500 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 5 ranges
SPECIAL FEATURES: Diode test, audible continuity test, true rms sensing
DIMENSIONS/WEIGHT: 17.4 × 9.3 × 4.6 cm/N.A.
PRICE: \$259.00

COMPANY: Daetron
MODEL: MM200
DESCRIPTION: This unusual multimeter is capable of displaying up to four readings simultaneously on a 16-character × 2-line dot matrix LCD. An upgrade of the MM100, this meter adds a frequency counter.
DIGITS: 4½ (up to 2 readings)/3½ (up to 4 readings)
DC VOLTAGE RANGE: 500 volts, 5 ranges
AC VOLTAGE RANGE: 500, volts, 4 ranges
CURRENT RANGE: 0.2 amp, 1 range DC only
RESISTANCE RANGE: 20 megohms, 5 ranges
SPECIAL FEATURES: Multiple-reading display, audible continuity test, analog bargraph display, manual or autoranging, hold function, relative mode, audible-response keypad, frequency counter (10 Hz–10 MHz, 9 ranges)
DIMENSIONS/WEIGHT: 276 × 250 × 60 mm/N.A.
PRICE: \$259.95

COMPANY: Beckman Industrial
MODEL: HD130B
DESCRIPTION: This heavy-duty meter is designed for dependability under demanding industrial conditions. The case is fire retardant and waterproof. This meter adds true rms reading and improved accuracy to the HD110
DIGITS: 3½
DC VOLTAGE RANGE: 1500 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 6 ranges
SPECIAL FEATURES: Diode test, continuity test, true rms

reading
DIMENSIONS/WEIGHT: 17.4 × 9.3 × 4.6 cm/N.A.
PRICE: \$279.00

COMPANY: John Fluke Mfg. Co., Inc.
MODEL: 87
DESCRIPTION: This top-of-the-line, 80-series meter is true rms reading and offers a 4½-digit display.
DIGITS: 4½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 6 ranges AC/DC
RESISTANCE RANGE: 40 megohms, 7 ranges

SPECIAL FEATURES: Auto/manual ranging, diode test, audible continuity test, "Touch Hold," auto power off, full-time high-resolution analog pointer, capacitance function (5 μF, 4 ranges), frequency counter (>200 kHz, 5 ranges), duty cycle function, min/max mode, conductance function, relative mode, true rms reading, holster/flex stand
DIMENSIONS/WEIGHT: 7.35 × 3.41 × 1.25 inches/12.5 ounces
PRICE: \$289.00

COMPANY: Tegam, Inc.
MODEL: 135A
DESCRIPTION: This industrial-quality meter features a 4½ digit display and .05% basic DCV accuracy.
DIGITS: 3½
DC VOLTAGE RANGE: 1000 volts, 4 ranges
AC VOLTAGE RANGE: 750 volts, 4 ranges
CURRENT RANGE: 10 amps, 2 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 5 ranges
SPECIAL FEATURES: Diode test, drop-proof case
DIMENSIONS/WEIGHT: 7 × 3.1 × 1.6 inches/1 pound
PRICE: \$299.00

COMPANY: Simpson Electric Company
MODEL: 474
DESCRIPTION: This upgrade of the 470 features a 4½ digit display.
DIGITS: 4½
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 5 ranges
SPECIAL FEATURES: Diode test, audible continuity test
DIMENSIONS/WEIGHT: 7.1 × 3.4 × 1.8 inches/1 pound
PRICE: \$300.00
COMPANY: Beckman Industrial
MODEL: HD140B

DESCRIPTION: This heavy-duty meter is designed for dependability under demanding industrial conditions. The case is fire retardant and waterproof.

DIGITS: 4½
DC VOLTAGE RANGE: 1500 volts, 5 ranges
AC VOLTAGE RANGE: 1000 volts, 5 ranges
CURRENT RANGE: 10 amps, 5 ranges AC/DC
RESISTANCE RANGE: 20 megohms, 5 ranges
SPECIAL FEATURES: Diode test, continuity test, true rms reading, waterproof and fire-retardant case



DIMENSIONS/WEIGHT: 17.4 × 9.3 × 4.6 cm/N.A.
PRICE: \$309.00

COMPANY: Triplet Corporation
MODEL: 3360
DESCRIPTION: A true-rms reading, extended range, precision DMM with user-selectable display, frequency counter, temperature function, and dBm mode.
DIGITS: 3½ or 4½ (user selectable)
DC VOLTAGE RANGE: 1000 volts, 5 ranges
AC VOLTAGE RANGE: 750 volts, 5 ranges
CURRENT RANGE: 10 amps, 2 ranges AC/DC
RESISTANCE RANGE: 25 megohms, 6 ranges
SPECIAL FEATURES: Audible continuity test, data hold, diode test, auto/manual ranging, peak hold, relative mode, frequency counter (10–99.999 kHz), temperature function (–50–+1200°C/–58–2192°F), dBm mode, selectable 3.5/4.5-digit display, true rms reading, user selectable 3½- or 4½-digit display
DIMENSIONS/WEIGHT: 7 × 3½ × 1¼ inches/360 grams
PRICE: \$399.00