



Electronic Specialties,
Incorporated

- Since 1967 -

485 SELF CALIBRATING TRUE RMS DMM

*Includes Training
DVD by
Dan Sullivan!*

- Full function True RMS DMM designed for the professional technician
- Patented Self Calibration Function
- *DVD includes 10 videos covering each major function w/testing tips*
- Measures: Volts, Ohms, Amps, Frequency, Capacitance, Duty Cycle, Diodes, Continuity & Temperature
- **TRUE RMS accuracy**
- 6,000 count backlit LCD Display
- MIN/MAX function
- CATIII 600 Volts safety rating
- Built-in TEMPERATURE - F&C
- Auto and Manual Ranging
- Relative Zero function
- 40" Test Leads, Temp probe and Zippered carrying case included
- PC Interface (cable optional)



PROFESSIONAL HAND HELD
TEST EQUIPMENT

This self-calibrating DMM leverages new technology through the use of high stability, low temperature coefficient resistors in the resistors network. Once the self-calibration function is turned on, the multimeter will automatically compare the standard resistor with other resistors in the resistors network, measure and store the actual and accurate values. The accuracy can endure for extended periods in a wide range of temperature environments. A self-calibration multimeter is an undoubtedly more accurate, more reliable measurement tool. User simply presses the button to CALIBRATE when they feel it is necessary.



ELECTRICAL SPECIFICATIONS

Accuracy is \pm (% of reading + numbers in last digit) at $23 \pm 5 \text{ C}^\circ$, <75% RH.

DC Voltage

60mV, 600mV, 6V, 60V : \pm (0.2%+2)
600V : \pm (0.3%+2)
Impedance : 10MegOhm
Overload protection : 600V DC/AC RMS

AC Voltage

60mV, 600mV, 6V, 60V : \pm (1.0%+3)
600V : \pm (1.5%+3)
Impedance : 10MegOhm
Frequency Response : 50~1KHz
Overload protection : 600V DC/AC RMS

Resistance (OHMS)

600, 6k, 60k, 600K, 6M : \pm (0.5%+2)
600M : \pm (1.0%+3)
Overload protection : 250V DC/AC RMS

DC Current

600uA, 6000uA ,60mA, 600mA : \pm (0.5%+3)
Overload protection : Fast fuse 0.8A/600V
6A, 10A : \pm (0.8%+5)
10A for 15 seconds each 15 minutes maximum
Overload protection : Fast fuse 10A/600V

AC Current

600uA, 6000uA ,60mA, 600mA : \pm (1.5%+4)
Overload protection : Fast fuse 0.8A/600V
6A, 10A : \pm (2.0%+5)
10A for 15 seconds each 15 minutes maximum
Overload protection : Fast fuse 10A/600V
Frequency Response : 50~1KHz

Capacitance

10nF, 100nF, 1uF, 10uF, 100uF, 1000uF, 40mF, 100mF : \pm (5%+10)
Overload protection : 250V DC/AC RMS

Temperature

-50°C to 150°C : \pm (+3%+1)
-58°F to 302°F : \pm (+3%+2)
150°C to 700°C : \pm (+3%+1)
302°F to 1292°F : \pm (+3%+2)

Duty Cycle

0.1~99.9% : \pm (2% rdg +5) @ Frequency less than 10kHz
Overload Protection : 250V DC/AC RMS

Diode Test

Test current : $1 \pm 0.6 \text{ mA}$ Test voltage : Approx. 2.8V
Overload protection : 250V DC/AC RMS

Continuity Test

Audible indication : less than 50 Ohms Approx.
Overload protection : 250V DC/AC RMS.