

# Electronic Specialties, Incorporated

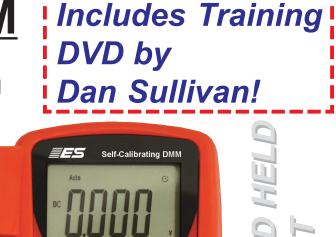
- Since 1967 -

# **485 SELF CALIBRATING**

# TRUE RMS DMM

- 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)

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 ± (% of reading + numbers in last digit) at 23 ± 5 °C, <75% RH.

# DC Voltage

60mV, 600mV, 6V, 60V : ± (0.2%+2) 600V : ± (0.3%+2) Impedance :10MegOhm

Overload protection : 600V DC/AC RMS

#### AC Voltage

60mV, 600mV, 6V, 60V : ± (1.0%+3) 600V : ± (1.5%+3) Impedance : 10MegOhm Frequency Response : 50~1KHz

Overload protection : 600V DC/AC RMS

# Resistance (OHMS)

600, 6k, 60k, 600K, 6M : ± (0.5%+2) 600M : ± (1.0%+3)

Overload protection : 250V DC/AC RMS

#### **DC Current**

600uA, 6000uA, 600mA, 600mA :  $\pm$ (0.5%+3)

Overload protection: Fast fuse 0.8A/600V 6A, 10A : ± (0.8%+5) 10A for 15 seconds each 15 minutes maximum Overload protection: Fast fuse 10A/600V

### **AC Current**

600uA, 6000uA, 60mA, 600mA : ±(1.5%+4)

 $\begin{array}{cccc} \text{Overload protection} & : & \text{Fast fuse } 0.8\text{A}/600\text{V} \\ \text{6A, } 10\text{A} & : \pm & (2.0\% + 5) \\ \text{10A for } 15 \text{ seconds each } 15 \text{ minutes maximum} \\ \text{Overload protection} & : & \text{Fast fuse } 10\text{A}/600\text{V} \\ \end{array}$ 

Frequency Response : 50~1KHz

#### Capacitance

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

#### **Temperature**

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

# **Duty Cycle**

0.1~99.9% :± (2% rdg +5) @ Frequency less than 10kHz

Overload Protection :250V DC/AC RMS

# **Diode Test**

Test current :1±0.6mA 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.