

## ESM™ Series Digital Multimeters



FEATURING:



DM-830A



DM-820A



DM-810A

### DM-810A features:

- True RMS for no-compromise accuracy
- Measures voltage, current, resistance, capacitance and frequency.
- Tests continuity and diodes.
- Backlit LCD with dual 10,000 count displays
- BeepJack™ warns when test leads are incorrectly inserted in current measurement terminals
- Automatic and manual range selection
- Relative offset mode to see changes in measurements
- Data hold
- Use optional USB interface DMSC-9U for direct-to-PC logging.
- Lifetime Limited Warranty

### DM-820A also features:

- Crest capture (peak hold) plus recording of max, min, max-min and average
- Two voltage detection modes – non-contact or using a single test lead
- One temperature measurement using a type K thermocouple
- Conductance measurement

### DM-830A has all DM-810A features plus:

- AC+DC True RMS gives accurate readings on complex waveforms
- Low impedance AutoCheck™ mode – automatically selects AC or DC volts, resistance or continuity. Low impedance masks “ghost” voltage pickup.
- dBm function with 20 selectable reference impedance values
- Crest capture (peak hold) plus recording of max, min, max-min and average
- Two voltage detection modes – non-contact or using a single test lead
- Two temperature measurements using type K thermocouples
- Conductance measurement

### Accessories included:

- (1) 9V battery, bead temperature probe (DM-820A, DM-830A only, 400°F/204°C max), test leads, protective boot, carrying case.

### SPECIFICATIONS

|                             |                                                        |
|-----------------------------|--------------------------------------------------------|
| <b>Voltage Measurement</b>  | 60.00, 600.0 mV; 9.999, 99.99, 999.9 V                 |
| <b>Amperage Measurement</b> | 600.0, 6000µA; 60.00, 600.0mA; 6.000, 10.00A           |
| <b>Resistance</b>           | 600.0Ω; 6.000, 60.00, 600.0 kΩ; 6.000, 60.00 MΩ        |
| <b>Conductance</b>          | 99.99nS                                                |
| <b>Capacitance</b>          | 60.00, 600.0nF; 6.000, 60.00, 600.0µF; 6.000, 25.00 mF |
| <b>Frequency</b>            | 15Hz-50kHz sine wave; 5Hz-1MHz logic level square wave |
| <b>Temperature</b>          | K type, -58 to 1832 °F (-50 to 1000 °C)                |
| <b>Measurement Category</b> | CAT IV, 1000V                                          |

| CAT. NO.   | UPC NO. | DESCRIPTION                                             |
|------------|---------|---------------------------------------------------------|
| DM-830A    | 08745   | Digital Multimeter                                      |
| DM-830A-C* | 35770*  | Digital Multimeter                                      |
| DM-820A    | 08744   | Digital Multimeter                                      |
| DM-820A-C* | 35760*  | Digital Multimeter                                      |
| DM-810A    | 08743   | Digital Multimeter                                      |
| DM-810A-C* | 35759*  | Digital Multimeter                                      |
| TC-20      | 07535   | Carrying Case                                           |
| TSG-3      | 12034   | Sure-Grip Test Leads                                    |
| TPB        | 07592   | Bead Temperature Probe (included with DM-820A, DM-830A) |



\* Includes Certificate of Calibration