

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

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