TRUE RMS DMM

Model: DM-9961 *ISO-9001, CE, IEC1010*



Features:

- * Heavy duty CAT III-1000V category.
- * 4000 counts, auto/manual range.
- * Large LCD, digit height 23 mm.
- * ACV, ACA, DCV, DCA, ohms, continuity buzzer.
- * Hz/Duty cycle, Capacitance, diode.
- * Data hold, Relative, range hold.
- * High input impedance for mV range.
- * 10 Amp. current with fuse protection.
- * Size: 194 x 89 x 40 mm.



Model: DM-9961



The Art of Measurement

AUTO RANGE MULTIMETER

CAT III-1000 V category, Auto range, REL, Capacitance Hz, Duty, ACV, ACA, DCV, DCA, Ohms

1. FEATURES

- * True RMS ACV, ACA measurement
- * Meet IEC 1010 CAT III 1000 V safety requirement.
- * Large LCD display with measurement unit.
- * Multi function measurement. DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Duty, Diode, Continuity beeper.
- * Data hold.
- * Relative measurement.
- * Auto range with manual range selection.
- * When make the ACV, ACA measurement, it also can measure the signal frequency, % duty at the same time.
- * 4000 counts A/D, high resolution.
- * Both 10 A, mA, uA current are build fuse for safety consideration.
- * 10 M ohm impedance for voltage circuit.
- * Operates from one DC 9V battery,
- * Built-in overload protection for most ranges.
- * Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing.
- * Full line optional adapters: Clamp adapter, Tachometer adapter, Pressure adapter, Humidity Adapter, Sound level adapter, Anemometer adapter, Light adapter, EMF adapter.

2. SPECIFICATIONS

2-1 General Specifications

Display		
Display	65 mm x 48 mm large LCD display	
Magazina	with bar graph indicator.	
Measurement	DCV, ACV, DCA, ACA, Resistance,	
	Capacitance, Frequency, Duty,	
	Diode, Continuity beeper.	
A/D counts no.	4000 counts.	
Range selection	Auto range with manual range selecting.	
Special function	Relative measurement, Data hold.	
Data hold	To freeze the display reading on the	
	LCD display.	
Power On/Off	Auto power of or manual power off.	
management	@ Details please refer page 8	
Relative	To offset the measurement value.	
measurement		
Polarity	Automatic Switching, " - " indicates	
	negative polarity.	
Zero adjustment	Automatic.	
Sampling time	Approx. 0.5 to 1 second.	
Operating	0 to 50 °C (32 to 122 °F),	
Temp. & humidity	·	
Power supply	006 p dc 9V battery.	
Power	Approx. DC 1.7 mA.	
consumption	, pp. 5.1. 25 11. 11.11	
Dimension	185 x 88 x 40 mm	
	(7.3 x 3.5 x 1.6 inch)	
Weight	350 g/0.77 LB.	
Accessories	Red and Black Test Leads	
Included	(CAT III 1KV Test Leads) 1 Set	
	0.5 Amp Spare Fuse 1 PC	
	Instruction Manual 1 PC	
Optional	Full line adapters :	
accessories	ACA/DCA current adapter,	
	Tachometer adapter,	
	Humidity adapter, Pressure adapter,	
	Light adapter, EMF adapter,	
	Sound level adapter,	
	High voltage probe.	
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2-2 Electrical Specifications (23 \pm 5 $^{\circ}$)

DC Voltage		
Range	400.0 mV /4 V/40 V/400 V/1000 V	
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	
Accuracy	\pm (0.5%+2d)	
Input impedance	10 M ohm.	
Over load	± 500 DCV, 350 ACV - 200 mV range.	
protection	± 1000 DCV, 1000 ACV - other ranges.	

AC Voltage (True RMS)		
Range	400.0 mV /4 V/40 V/400 V/1000 V	
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	
Accuracy	± (1%+2d)	
	* Spec. are tested under 50/60 Hz.	
Input impedance	10 M ohm.	
Over load	± 500 DCV, 350 ACV - 200 mV range.	
protection	± 1000 DCV, 1000 ACV - other ranges.	

AC Current (True RMS) DC Current		
Range	10 A/400 mA/40 mA/4000 uA/400 uA	
Resolution	10 mA/0.1 mA/0.01 mA/1 uA/0.1 uA	
Accuracy	400 mA/40 mA/4000 uA/400 uA: ± (0.5%+2d) 10 A: ± (1.5%+2d) * ACA spec. are tested under 50/60 Hz.	
Over load	10A range: 10A fuse.	
protection	uA, mA range : 500 mA fuse.	

Diode (Forward voltage, VF)		
Range	4 V DC.	
Resolution	0.001 V.	
Accuracy	± (0.5%+2d)	

Capacitance		
Range	40 nF/400 nF/4 uF/40 uF/100 uF	
Resolution	10 pF/0.1 nF/1 nF/10 nF/0.1 uF	
Accuracy	± (3%+1d)	

Frequency	
Range	4 Hz/40 Hz/400 Hz/4 KHz/40 KHz/
	400 KHz/4 MHz
Resolution	0.001 Hz/0.01 Hz/0.1 Hz/0.001 KHz/0.01 KHz
	0.1 KHz/0.001 MHz
Accuracy	\pm (0.5%+2d)
Sensitivity	Min. 1.5 V rms, Max. 5 V rms.

Duty		
Range	1 % to 99 %	
Resolution	0.1 %	
Accuracy	± 1% duty	
Measuring signal	Function switch set to " Hz ":	
and level	2 Vp-p to 5 Vp-p,	
	square wave 10 KHz max.	
	Function switch set to "ACV", "ACA":	
	50 Hz to 500 Hz	

OHMS			
Range	400/4 K/40 K/400 I	400/4 K/40 K/400 K/4 M/40 M ohm	
Resolution	0.1/1/10/100/1 K/1	0.1/1/10/100/1 K/10 K ohm	
Accuracy	400 ohm	± (0.5%+2d)	
	4K/40K/400K/4 M		
	40 M	± (2%+5d)	
Over load	± 500 DCV, 350 AC	± 500 DCV, 350 ACV	
protection			

Continuity Beeper

Beeper will sound if measured resistance less than 20 ohm.