# DMM CAT III 1000V

Model: DM-9960 *ISO-9001, CE, IEC1010* 



### **FEATURES**

- \* Meet IEC 1010 CAT III 1000 V.
- \* Large LCD display with bar graph indicator.
- \* Multi function measurement. DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity beeper.
- \* Max./Min., Peak value, Relative, Data hold.
- \* Auto range with manual range selection.
- \*  $^{\circ}$ C/ $^{\circ}$ F thermometer  $^{\circ}$
- \* VAHz button, when execute the ACV, ACA function also can measure the frequency of signal.
- \* 4000 counts A/D, high resolution.
- \* Build fuse for Both 10 A, mA, uA current range.
- \* 10 M ohm input impedance for voltage circuit.
- \* Full line optional adapters.





The Art of Measurement

## **AUTO RANGE MULTIMETER, CAT III 1000V**

Model: DM-9960

FEATURES				
* Meet IEC 1010 CAT III 1000 V safety requirement.	* Both 10 A, mA, uA current are build fuse for safefy			
<ul> <li>* Large LCD display with bar graph indicator.</li> </ul>	consideration.			
* Multi function measurement. DCV, ACV, DCA, ACA,	* 10 M ohm impedance for voltage circuit.			
Resistance, Capacitance, Frequency, Temperature,	* Operates from 2 PCs UM4 1.5 V batteries.			
Diode, Continuity beeper.	* Built-in overload protection for most ranges.			
* Max./Min., Peak value, Relative, Data hold.	* Photo copuple RS 232 computer serial interface.			
* Auto range with manual range selection.	* Uses durable, long-lasting components, enclosed in			
* °C/°F thermometer, optional Temp. probe.	strong, light weight ABS-plastic housing.			
* VAHz button, when execute the ACV, ACA function also	* Full line optional adapters : Clamp adapter,			
can measure the frequency of signal.	Tacheometer adapter, Pressure adapter, Humidity			
* 4000 counts A/D, high resolution.	Adapter, Soud level adapter, Anemometer adapter,			
	Light adapter, EMF adapter.			

GENRAL SPECIFICATIONS					
Display	65 mm x 48 mm large LCD display	Sampling time	Approx. 0.5 to 1 second.		
. ,	with bar graph indicator.	Operating	0 °C to 50 °C (32 °F to 122 °F).		
Measurement	DCV, ACV, DCA, ACA, Resistance,	temperature			
	Capacitance, Frequency, Temperature,	Operating	Max. 80% RH.		
	Diode, Continuity beeper.	humidity			
A/D counts no.	4000 counts.	Power supply	1.5 V battery x 2 PCs		
Range selection	Auto range with manual range selecting.		UM-4/AAA/Micro/R03 type		
Special function	Max./Min., Peak value, Relative	Power	Approx. DC 2.5 mA.		
	measurement, Data hold.	consumption			
Data hold	To freeze the display reading on the	Dimension	185 x 88 x 40 mm ( 7.3 x 3.5 x 1.6 inch ).		
	LCD display.	Weight	350 g/0.77 LB.		
Memory recall	Records Maximum & Minimum readings	Accessories	Red and Black Test Leads 1 PC.		
	with recall.	Included	0.5 Amp Spare Fuse 1 PC.		
Peak value	To measure the signal peak value.		Instruction Manual 1 PC.		
Relative	To offset the measurement value.	Optional	Full line adapters :		
measurement		accessories	ACA/DCA current adapter,		
VAHz button	When execute the ACV, ACA function		Humidity adapter, Pressure adapter,		
			Light adapter, EMF adapter,		
	also can measure the frequency of		Sound level adapter,		
	signal.		High voltage probe.		
Data output	RS 232 PC serial interface,				
	photo couple.		Soft carrying caseCA-05A		
Polarity	Automatic Switching, " - " indicates		Temperature probe TP-11		
	negative polarity.		RS232 cableUPCB-06		
Zero adjustment	Automatic.				

ELECTRICAL SPECIFICATIONS (23± 5 °C)					
DC Voltage		CAPAITANCE			
Range	400.0 mV / 4 V/ 40 V/ 400 V / 1000 V	Range	4 nF/40 nF/400 nF/4 uF/40 uF/400 uF		
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	1	4 mF/40 mF		
Accuracy	± (0.5% + 2d)- 400 mV.	Resolution	1 pF/10 pF/0.1 nF/1 nF/10 nF/0.1 uF		
	± (0.8% + 1d) - 4 V, 40 V, 400 V, 1000 V.		1 uF/10 uF		
Input impedance	10 M ohm.	Accuracy			
Over load	00 DCV, 350 ACV - 200 mV range.		± (3 % + 1d)		
protection	000 DCV, 1000 ACV - other ranges.				
AC Voltage					
Range	400.0 mV / 4 V/ 40 V/ 400 V / 1000 V	Frequency			
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	Range	4 KHz/40 KHz/400 KHz 4 MHz/40 MHz		
Accuracy	± (1% + 2d)				
-	* Spec. are tested under 50/60 Hz.	Resolution	1 Hz/10 Hz/0.1 KHz/1 kHz/0.01 MHz/0.1 MHz		
Input impedance	10 M ohm.	Accuracy	$\pm$ (0.5% + 2d)		
Over load	± 500 DCV, 350 ACV - 200 mV range.	OHMS			
protection	± 1000 DCV, 1000 ACV - other ranges.	Range	400/4 K/40 K/400 K/4 M/40 M ohm		
DC Current, AC Current		Resolution	0.1/1/10/100/1 K/10 K ohm		
Range	10 A/400 mA/40 mA/4000 uA/400 uA	Accuracy	400 ohm : ± ( 1 % + 2d )		
Resolution	10 mA/0.1 mA/0.01 mA/1 uA/0.1 uA		$4K/40K/400K/4 M : \pm (1.5 \% + 2d)$		
Accuracy	400 uA: ± (1% + 2d)		$40 \text{ M}: \pm (3\% + 5d)$		
	4000 uA: ± (1.5 % + 2d)	Over load	± 350 DCV, 350 ACV.		
	40 mA : ± ( 1 % + 2d )	protection			
	400 mA: ± (1.5 % + 2d)	Temperature			
	400 mA: ± (1.5 % + 2d)	Range	-20 °C to 750 °C		
	* ACA spec. are tested under 50/60 Hz.				
Over load	10A range: 10A fuse.	Resolution	1 ℃		
protection	uA, mA range : 500 mA fuse.				
Diode ( Forward voltage )		Accuracy	-20 °C to 300 °C : ± ( 1% + 2 °C )		
Range	2 V		301 $^{\circ}$ C to 750 $^{\circ}$ C : ± 3% reading		
Accuracy	± (0.5% + 2d)	* The temperature probe is optional.			
Continuity Beep	er		•		
Beeper will sound	if measured resistance less than 20 hom.				

<sup>\*</sup> Appearance and specifications listed in this brochure are subject to change without notice.

## Type K Temperature Probe

Model: TP-11 *ISO-9001, CE, IEC1010* 



#### **FEATURES**

- \* Optional temperature probe for DMM, DM-9960.
- \* Type K thermocouple temperature probe.
- \* Measure Rage : -40  $^{\circ}$ C to 250  $^{\circ}$ C , -40  $^{\circ}$ F to 482  $^{\circ}$ F .
- \* Ultra fast response naked-bead thermocouple, general purpose application.





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