

# 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.
- \* °C/°F thermometer °
- \* 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.



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

GENERAL SPECIFICATIONS			
Display	65 mm x 48 mm large LCD display with bar graph indicator.	Sampling time	Approx. 0.5 to 1 second.
Measurement	DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity beeper.	Operating temperature	0 °C to 50 °C (32 °F to 122 °F).
		Operating humidity	Max. 80% RH.
A/D counts no.	4000 counts.	Power supply	1.5 V battery x 2 PCs UM-4/AAA/Micro/R03 type
Range selection	Auto range with manual range selecting.	Power consumption	Approx. DC 2.5 mA.
Special function	Max./Min., Peak value, Relative measurement, Data hold.	Dimension	185 x 88 x 40 mm ( 7.3 x 3.5 x 1.6 inch ).
Data hold	To freeze the display reading on the LCD display.	Weight	350 g/0.77 LB.
Memory recall	Records Maximum & Minimum readings with recall.	Accessories Included	Red and Black Test Leads..... 1 PC. 0.5 Amp Spare Fuse..... 1 PC. Instruction Manual..... 1 PC.
Peak value	To measure the signal peak value.	Optional accessories	Full line adapters : ACA/DCA current adapter, adapter, Tachometer adapter, Humidity adapter, Pressure adapter, Light adapter, EMF adapter, Sound level adapter, High voltage probe. Soft carrying case..... CA-05A Temperature probe..... TP-11 Software..... SW-9960 RS232 cable..... UPCB-06
Relative measurement	To offset the measurement value.		
VAHz button	When execute the ACV, ACA function also can measure the frequency of signal.		
Data output	RS 232 PC serial interface, photo couple.		
Polarity	Automatic Switching, " - " indicates negative polarity.		
Zero adjustment	Automatic.		

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

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

0905-DM9960

# 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 Range :  $-40\text{ }^{\circ}\text{C}$  to  $250\text{ }^{\circ}\text{C}$ ,  $-40\text{ }^{\circ}\text{F}$  to  $482\text{ }^{\circ}\text{F}$ .
- \* Ultra fast response naked-bead thermocouple, general purpose application.



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